UC-NRLF
$C 16 732

Y
E
TY
NIA

UNIVERSITY OF CALIFORNIA
DIVISION OF VOCATIONAL EDUCATION
BERKELEY, CALIFORNIA

LIBR.

UNIVERSITY OF CALIFORNIA
DIVISION OF VOCATIONAL EDUCATION
BERKELEY, CALIFORNIA

Digitized by the Internet Archive
in 2008 with funding from
Microsoft Corporation

http://www.archive.org/details/vocationaleducat00pattrich

Vocational Education in Agriculture

A comparative study of the administration of the Smith-Hughes Act for the promotion of Vocational Education in Agriculture

by

W. W. Patty

Written in connection with a course in Agricultural Education 202 in the University of California, during the Fall Semester 1919

Prepared under the Direction of Professor F. L. Griffin, Associate Professor of Agricultural Education

VATION
DDED
L TO BE
D

EDUCATION LIBR.

S533
P32
Educ.
Lib.

CONTENTS

I. Brief digest of Federal law, the Smith-Hughes Act of Vocational Education, with special reference to the fundamental conditions and requirements of Agriculture . . . . . 1 - 4

II. General discussion of the operation of the act in the various states. . . . . 5 - 11

A. Conditions, standards, requirements, and methods that seem to be more or less uniform in the in the United States, including state plan of organization for administration . . . 5 - 8

B. Brief mention of original methods, and peculiar conditions and standards . . . . . 8 - 11

III. Studies of representative states. 12- 79

A. Individual, summarized studies of representative states 12- 58

B. Individual, suggested Courses of Study of representative states. 59- 79

IV. Summarized impressions and recommendations, based upon a comparative study of methods of various states . . . . . 80 - 87

M819506

CONTENTS

V. Suggestive four year Course of Study 88-89

VI. California 90-95

A. Act of adoption 90-91

B. Method of procedure in establishment of Vocational Courses in Agriculture under the Smith-Hughes Act in California 91-93

C. Financial aid to be expected. 93-95

D. Professional aid to be expected 95

VII. Bibliography

.....

V. Suggestions for your Course of Study . . . . . .

VI. Conclusion . . . . . .

A. Act of adoption . . . . . .

B. Method of procedure in establishment of Vocational Courses in agriculture under the Smith-Hughes Act in California . . . . . .

C. Material aid to be expected. . . . . .

D. Problems(s) all to be answered . . . . .

VII. Bibliography

.....

1. Brief digest of Federal law, the Smith-Hughes Act for the Promotion of Vocational Education, with special reference to the fundamental conditions and requirements of Agriculture.

(The Smith-Hughes Act signed February 23,1917.)

"An Act to provide for the promotion of vocational education; to provide for co-operation with the states in the promotion of such education in agriculture and in the trades and industries; to provide for co-operation with the states in the preparation of teachers of vocational subjects; and to appropriate money and regulate its expenditure."

A. Financial provisions of the Act.

1. For the purpose of co-operating with the states in paying the salaries of teachers, supervisors, or directors of agricultural subjects, the following appropriations are made: For fiscal year, ending June 30, 1918, $500,000; fiscal year 1919, $750,000; fiscal year 1920, $1,000,000; fiscal year 1921, $1,250,000; fiscal year 1922, $1,500,000; fiscal year 1923, $1,750,000; fiscal year 1924, $2,000,000; fiscal year 1925, $2,500,000; fiscal year 1926 and annually thereafter, $3,000,000. Sum allotted to each state in proportion which its rural population bears to the

3. Brief digest of Federal laws [illegible]
   relating [illegible] the promotion of Vocational
   Education, with special reference to the
   fundamental conditions and requirements of
   agriculture.

(The Smith-Hughes Act [illegible] $3,017,)

"An act to provide for the promotion of vocational
education; to provide for co-operation with the states in
promotion of such education in agriculture and in the trade
and industries; to provide for co-operation with the states
in the preparation of teachers of vocational subjects; and
to appropriate money and regulate its expenditure."

4. Financial provisions of the act.

1. For its purpose of co-operating with the states
   in paying the salaries of teachers, supervisors,
   or directors of vocational subjects, the
   following appropriations are made: For fiscal
   year ending June 30, 1918, $500,000; fiscal
   year 1919, $700,000; fiscal year 1920, $1,000,000;
   fiscal year 1921, $1,300,000; fiscal year 1922,
   $1,500,000; fiscal year 1923, $1,700,000; fiscal
   year 1924, $1,900,000; fiscal year 1925, $2,100,
   000; fiscal year 1926 and annually thereafter,
   $2,500,000. The [illegible] to which it is pro-
   portion ratio its total population bears to the

total rural population of the U. S. Proviso: No state shall receive annually less than $5000, prior to 1923, nor less than $10,000 after that year; deficiency appropriations to provide this "minimum allotment".

2. For the purpose of co-operating with the states in preparing teachers, supervisors and directors of agricultural subjects and the teachers of trade and industrial and home economics subjects the following appropriations are made: For the fiscal year ending June 30, 1918, $500,000; fiscal year 1919, $700,000; fiscal year 1920, $900,000; fiscal year 1921 and annually thereafter, $1,000,000. Sum allotted to state in proportion which its population bears to total population of U. S. Proviso: No state shall receive annually less than $5,000 annually prior to 1919, nor less than $10,000 after that year; deficiency appropriations to provide this "minimum allotment."

3. The sum of $200,000 is appropriated for the administration of the act, for the payment of salaries of officers and assistants, etc. Board may allot any part of this appropriation to any U. S. Department or bureau for the purpose of making any study or investigation contemplated in this act.

4. Appropriations herein made to be expended only for salaries of teachers, supervisors, or directors, as herein provided. The cost of instruction supplementary to the instruction in agricultural subjects provided for in this act, necessary to build up a well-rounded course of training, shall be borne by the state and and local communities, and no part of the cost thereof shall be borne out of the appropriations herein made. Appropriations conditioned that the state or local community, or both, shall expend an equal amount for salaries.

5. In order to secure the benefits of this act, state shall, through legislative authority thereof, accept the provisions of this act, and designate or appoint a state board, consisting of not less than three members, and having power to co-operate with the Federal Board of Vocational Education. After June 30, 1920, no state shall receive any appropriation for salaries of teachers, supervisors, or directors of agricultural subjects until it has taken advantage of at least the minimum amount appropriated for the training of teachers, supervisors, or directors of agricultural subjects.

6. To secure the benefits of appropriation, State board "shall prepare plans showing the kinds of vocational education for which it is proposed that the appropriation shall be used; the kinds of schools and equipment; courses of study; methods of instruction; qualifications of teachers; and, in the case of agricultural subjects, plans for the supervision of agricultural education." Such plans to be submitted to the Federal board. State board shall report annually to the Federal board on or before September 1.

7. In order to receive the benefits of this act, State board shall provide in its plan for agricultural education that it shall be under public supervision or control; that its purpose shall be to fit for useful employment; that it shall be of less than college grade and designed for persons over 14 years of age; that the state or local community, or both, shall provide plant and equipment as determined upon by State board, with approval of Federal board; that amount expended for any school or class shall not be less than amount fixed by State board with approval of Federal board, for such schools or classes in the state; that such

5. In order to secure the benefits of this act, states shall, through legislative authority therefor, assure the provisions of this act, and designate or provide a state board, consisting of not less than three members, and having power to cooperate with the federal board of vocational education. After June 30, 1919, no state shall receive any appropriation for salaries of teachers, supervisors, or directors of agricultural subjects, or directors of vocational subjects.

6. To secure the benefits of appropriation, state board shall prepare plans stating the kinds of vocational education for which it is proposed that the appropriation shall be used; the kinds of schools and equipment; courses of study; methods of instruction; qualifications of teachers; and, in the case of agricultural subjects, plans for the supervision of agricultural education." Such plans to be submitted to the federal board. State board shall report annually to the federal board on or before September 1.

7. In order to receive the benefits of this act, plans shall provide in the case for agricultural education that it shall be under public supervision or control; that the money paid to the state by the federal government; that it be not less than dollars for each year of the period ending for expenditure over the years of age; that the state or local community, or both, will provide plant and equipment as determined upon by state board, with approval of federal board, that money received for any school or class shall not be less than amount fixed by state board with approval of federal board, for each scholar or classes in the state; that such

schools shall provide for supervised practice in agriculture for at least six months per year; that teachers shall have at least minimum qualifications determined by State board with approval of Federal board.

II. General discussion of the operation of the act in the various states.

A. Conditions, standards requirements and methods that seem to be more or less uniform in the different states, including the state plan of organization for administration.

Practically all states have now made provision for the supervision and administration of the act by providing, in addition to the State Board of Vocational Education positively required by law, a State Director of Vocational Education, a State Supervisor of Agricultural Education, a State Supervisor of Industrial Education, and a State Supervisor of Home Economics Instruction.

These officers are the administrators of the Act in the state through power delegated to them by the State board. They make investigations and surveys, promote the establishment of vocational classes, approve or disapprove schools applying for aid, supervise instruction, hold conferences with vocational teachers, supervise the teacher-training work, prepare the state annual report to the Federal board, and co-operate with all agencies in carrying out the policy of the State and Federal boards with regard to vocational educa-

12. Natural disposition of the operation
of the unit in the various systems.

tion.

It is required that vocational education, in order to be approved for aid, must:

1. Be given under public supervision and control.
2. Have as its definite aim to fit for useful employment.
3. Be designed to meet the needs of persons over fourteen years of age.
4. Be of less than college grade.
5. The teacher of agriculture must be hired for 12 months.
6. Provide for, at least six months supervised practice work.

In twenty of the twenty-three states, given special attention in this study, the project method is used in securing the required practice work. In addition to the twenty states that require the project as an integral part of the course, Missouri recommends the Class "A" project which is the method of making the individual project the controlling factor in choice of subject matter for study in the allied subjects of the year's work. Seven of the states referred to require projects of this class "A"

type. Thirteen states require project work of the class "B" type, a type of practical work; but where the method is not to group the course about the project. In this method the project might be in a line of farm work that bore no relation to the agricultural subjects being studied at school. The state of Oregon requires type "D" of practice work, consisting of six months farm practice. They recommend home project work of type "B", however.

Twelve of the twenty-three states provide specifically for transportation for the instructor at the district expense. This provision is recommended; but not required in several other states.

The states uniformly require laboratory equipment costing at least $250. A considerable number have set this minimum at $500. All states require, as minimum preparation of instructors, at least two years of practical farm experience, graduation from a standard Agricultural College, and sympathy with rural life. For directors and supervisors the same standard plus three years successful teaching experience of Agriculture is usually required. The four year course is now in general operation, although in some of the smaller schools it is advisable to combine the work of the first

year with the third, and the second with the fourth in order not to waste the instructor's time; and operate with a minimum number of teachers.

B. Brief mention of original methods, and peculiar conditions and standards.

There are two peculiar features of the Iowa plan. It provides that, in cities over 5000 in population, the local Board of Education shall appoint a local advisory committee for vocational education, composed of persons experienced in Agriculture, Industry, Home Economics, or Business. The other feature is that the instructor must give his entire time to an agriculture class of 10 members; and under no circumstances may include more than 30 in his instruction.

All of the states studied, except Arizona, set a minimum salary to be paid instructors of Vocational Agriculture. In most cases this minimum is quite liberal. There is a variance for white teachers from $1200 to $1500 as annual state minimum. A peculiarity of the Georgia plan is the establishment of a minimum for negro teachers of $500 per year. Florida pays negro teachers of Agriculture $600 per year, and white teachers $1500 minimum. A strong feature

of the Florida plan is the detailed completeness of the teacher-training course. The Georgia plan gives unusual attention to field supervision, a very desirable feature. Georgia has several agricultural schools under state control. The white schools seem to be of high school grade, while the negro agricultural schools appear to be of elementary grade.

The suggested courses of study for Kentucky, Montana, and Tennessee might be adversely criticized, as courses in Vocational Agriculture, because of the unusual proportion of attention given to classical English. Each provides for four years of standard English. A desirable feature of the bulletin edited by the Tennessee Department is the helpful and comprehensive bibliography for the use of teachers.

Space does not permit all the desirable and undesirable peculiarities of the situations and plans of the various states. Something should be said, however, in regard to the practice work which is being done in the various states. As was previously mentioned (in II A), practically all the states are using some form of the project method. One feature of the home project work in Colorado is the method of giving credit. One unit of credit is given for a success-

ful project carried out to specifications. This is on a basis of 50% for field work, 25% for records, and 25% on exhibit at County Fair. A grade of 75% is required for credit.

The North Carolina plan lays more than the usual stress on the school farm, recommending from 50 to 100 acres of land, stocked up with the best grade of animals etc. In North Carolina the failure of a teacher of Agriculture, who has the operation of a school farm, to provide a good garden, both Summer and Winter, should be considered just cause for withholding State and Federal appropriations. The requirement in Oregon is for six months farm practice; but the project is given a recommendation as practice work.

The work in Massachusetts is featured by the unusually successful development of the home project method of instruction. There the instruction is really grouped about the project. The allied work of the student is correlated with his project. The work in that state has been developed under the direction of Prof. Stimson who is the author of an interesting book, " Vocational Agricultural Education, by the Home Project Method. "California's plan is character-

ized by a strict adherence to the spirit as well as to the letter of the Federal law. The emphasis is strongly on the practical. The class "A" type of home project predominates in the course. The course of study is featured by the emphasis on the farm application of subjects. One feature peculiar to the Utah plan is their variety of plans for supervised practice work. They require home projects; and provide four types of projects:

(1) Individual ownership Method. (2) Individual Lease Method. (3) Apprenticeship Method. (4) Home Employment Method.

III. Studies of Representative States

A. List of representative states included.

Arizona

California

Connecticut

Colorado

Florida

Georgia

Iowa

Illinois

Kentucky

Massachusetts

Missouri

Montana

Michigan

Nebraska

New York

North Carolina

Oregon

Oklahoma

South Dakota

III. Number of Representatives (Type)

A. List of representative states included:

Alabama

California

Connecticut

Colorado

Florida

Georgia

Iowa

Illinois

Kentucky

Massachusetts

Maryland

Montana

Michigan

Nebraska

New York

North Carolina

Oregon

Rhode Island

South Dakota

Texas

Tennessee

Utah

Virginia

Questions Answered in the Following Summarized Study of Agricultural Education in the Various States under the Smith-Hughes Act, 1919

1. Agricultural Schools; or High School Departments?
2. Is plot of ground required at the school?
3. What is minimum requirement for laboratory equipment?
4. What is minimum enrollment required for approval; and aid?
5. Percentage of salaries of instructors paid by State? Community?
6. Is "Home Project" method required?
   If so, does it-------
   (A) Control schoolroom instruction by "Correlation method",
   (B) Is it independent of class instruction,
   (C) Is it of the "farm management" type; or
   (D) Is the farm experience system used?
7. Are instructors hired for twelve months?
8. Give the length of the course in years? What is the nature of the course for each year?
9. What practical experience and educational qualifications are required of instructors?
10. What provision is made for supervision of teachers, courses, equipment, buildings, etc.?
11. What provisions for teacher-training; and professional improvement?

Questions Answered in the Following Departmental
Report of
Agricultural Education in the Various Towns under the
Welsh-Harpur Act, 1918

1. Agricultural Schools or Why School Departments?

2. The Plot of Ground Required at the School?

3. What is minimum requirement for laboratory accommodation?

4. What is minimum accommodation required for apparatus and aids?

5. Purchasing of supplies of instructors paid by State? Community?

6. Is "Home Project" method required
   If so, does it----

   (A) Destroy schoolroom instruction by "home-
   visiting method",
   (B) Is it independent of class instruction,
   (C) Is it of the "farm mechanics" type; or
   (D) Is the farm experience system used?

7. Are instructors hired for twelve months?

8. Give the length of the course in years? What is the average of the course for each year?

9. What practical experience and mechanical qualifications are required of instructors?

10. What provision is made for supervision of products, equipment, building, etc.?

11. What provisions for teacher-training; and professional improvement?

12. Must the board of education provide transportation for the instructor in his work of home project supervision, and other field work?

Brief summary of any unusual features of State Plan.

Arizona

1. Agricultural schools of High School grade.

   High School Departments.
   Agriculture departments of secondary school grade conducted by Normal Schools.
   Short courses from one to eighteen weeks in any of the above.
   Part time and evening classes in any of the above.

2. Inferred; but not required. Recommended for experimental work.

3. Recommended $500 with $200 additional for farm mechanics shop. $5 per pupil for materials.

4. Not specified.

5. 50% federal. 50% state money.

6. Yes. Class "B" type of home project.

7. Yes. (One month vacation.)

8. One to four years.

9. Two years practical experience after 18 yrs. of age. Graduate from standard Agricultural College.

10. State Director of Vocational Education. Itinerant teacher-training provided for. Prof. of Agriculture secured for part-time for work.

11. One month during dull season to be given teacher for professional improvement. Training Course at University

Answers

1. Agricultural economist of high federal grade.

2. Interest; not much required. Recommended for secretarial work.

3. Recommended 2500 with 2500 additional for long-academic prep. To get credit for materials.

4. Not specified.

5. 50% federal. 50% state money.

6. Yes. Class "C" type of labor project.

7. Yes. (Low school requirement.)

8. Due to four years.

9. Two years vocational experience after 12th. or 13th. grade.
   Graduate from accredited agricultural college.

10. State Director of Vocational Education. Itinerant teacher-training provided for. Prof. of Agriculture required for part-time for work.

11. One month during full master to be given facilities for professional improvement. Training Course at Univer

of Arizona.

12. Not specified.

One feature of Arizona law was failure to set minimum salary for instructors. Other features pretty carefully worked out.

California

1. High School Departments.

2. Yes. Plot sufficient for experimental purposes.

3. Present science and manual training laboratories plus "slight modifications". Each district must expend for each class maintained (including teachers' salaries, overhead, etc.) not less than $1800 per year.

4. Not specified.

5. Federal and State pay for first teacher unit of instruction $1000
Federal and State pay for second teacher unit of instruction $700
Federal and State pay for third teacher unit of instruction $500
Federal and State pay for fourth teacher unit of instruction $300

6. Required. Instruction, class A-Project controls classroom instruction by correlation method.

7. Yes. Minimum of $1500 for applied, and $1200 for supplemental subject instruction.

8. One year at first, increasing to four years as soon as sufficient number of prepared pupils desire the work. 1st yr- Farm English, Science, Math., Hygiene & Sanitation. 2nd - Farm Science, Math., Citizenship, English. 4th - Farm Econ. Farm project each year.

9. Must be experienced in farming; and hold special certificates in vocational type of Agriculture.

10. One of special instructors must be in charge of department. Commissioner of Vocational Education. State Supervisor of Agricultural Instruction. State Director of Agriculture Teachers Training.

11. Agriculture Club must be organized wherever an approved and aided course is located. Arrangements may be made with State Board whereby teachers may visit other schools or classes provided for the advanced training of teachers.

12. Not specified.

California's plan is characterized by a strict adherence to the spirit as well as the letter of the federal law. The emphasis is strongly on the practical. The plan requires at least eight weeks practical work on a farm before the pupil enters on the third year of the course and sixteen weeks before the fourth year may be started. The emphasized point in the qualifications of in-

8. One year at first, increasing to four years as equa
as sufficient number of interested people desire the
work. Not to be part-time, delayed, etc., Objective
& Qualification. Not - Part-time, Delay, etc., Citizen-
ship, English, etc - Must Open. Term projects each
year.

9. Must be experienced in Canada; and hold special cert-
ificates in theatrical type of Instructors.

10. Use of special Instructors such in charge of Theatre-
craft. Consideration of Positions; Objection. Strata
Departments of Individual Instruction. Steps Direct
of Agricultural Teachers Training.

11. Activations Club must be organized whenever an approved
and idle center is located. Arrangements may be mad
with State Board whereby teachers may visit other
schools or classes provided for the advanced training
at the Center.

12. Not specified.

California's plan is characterized by a strict
adherence to the spirit & act of the letter of
the federal law. The emphasis is strongly on the
practical. Any time required in local night
class practical work or a term before the pupil
enters on the full time of the course and extends
those before the latter may be "elective." The
enforcement public is the qualifications of se-

structors is that they should have practical farming experience.

The course of study is characterized by the emphasis on the farm application of subjects. There are but 2½ units of ordinary academic work offered - 3nd yr. English ½, Citizenship ½, 3rd English ½, Democracy ½, 3rd Dev. of U. S. ½, Farm projects and Farm mechanics 8 units, 2 units (½ of course) each year.

Connecticut

1. High School departments or Agricultural Schools.
2. Not specified.
3. "At least one room properly equipped" approved by the High School Inspector. At least $5.00 per pupil in course per year for supplies.
4. Not specified.
5. Federal fund 50% as far as it will reach. "For every dollar of federal funds, the state will spend many more than the same equity."
6. Yes. Class "B" project method.
7. Yes.
9. Two years practical experience; and B. S. in Agriculture. Must be a man 21 years of age. Citizen of U. S. 12 hrs. practice teaching.

elementary science that should have practical
Florida experiences.

The courses of study is characterized by the
opportunity co-operation of subjects.
There are two (2) units of industry experience
work (three - two yr. Jr/Sr). Diploma(s)
A. Jr. Trades B. Theories C. Sr. Dev. of
D. E. F. Term projects and Term workshops 8
units, 3 units (2 of course) each term.

Comments

1. High School Department of Agricultural Schools.
2. Not specified.
3. "At least one term property applied" approved by the
   High School Inspector. It takes 36.5% per pupil in
   course per year for supplies.
4. Not specified.
5. Federal fund 50% as far as it will reimb. "For every
   dollar of general funds, the state will spend many
   more times the same supply."
6. Yes. Diploma "A" project method.
7. Yes.
8. Two years practical experience; and B. 7. Ag Agricultur
   Must be a man of years of age. Diploma of U. 7. Ag
   Ser. Agricultu Specialist.

10. State Supervisor and Director. Supervisor - 5 yrs. Ag. teach. exp.
11. State Supervisor will assist and supervise teaching in the field. Teachers will be allowed suitable vacation.
12. Not specified.

Colorado

1. High School departments, only.
2. No.
3. Suitable room, cabinets, reference books, bulletins, farm papers, laboratory equipment of $500, and per capita maintainance fee $5.
4. 10, if 25% from country - otherwise 20.6 for each class aided.
5. 50% federal. 50% local district.
6. Yes. Class "B" home project work.
7. Yes.
8. Four Year course.
   (See III B for detailed course of study).
9. Graduates from Agricultural Colleges. Practical farm experience.

10. State Supervisor Use Director. Supervisor - 3 yrs.
    Ag. Sales. Rep.
11. State Supervisor will assist and supervise teaching
    in the field. Teachers will be placed initially
    monthly.
12. Not specified.

Colorado

1. Mid Rocky Mountains, only.
2. No.
3. Fairfield Home, Cedaredge, Delta-Ute Corp, Mulberins,
   Farm Bureau, Laboratory equipment to $500, and per
   capita maintenance tax $5.
4. 10, if 3% free country - otherwise 50.0 for each class
   ified.
5. 5% Tuberc. 80% legal disease.
6. Yes. Plans "B" home project work.
7. Yes.
8. Four Year Course.
   (Yes III 9 for technical course of study).
9. Graduates from Agricultural Colleges. Practical Farm
   Experience.

10. State Director of Vocational Education.

11. Teacher-training provided for at Colorado Agricultural College, Fort Collins, Colorado.

12. Yes.

One feature of the home project work in Colorado is the method of giving credit. One unit of credit is given for a successful project carried out to specifications. This is on a basis of 50% for field work, 25% for records and 25% on exhibit at county fair. 75% required for credit.

An unusual project was developed here in the tractor project. A careful record was kept of hours of work each day, work accomplished in current price terms, initial and final value of tractor, cost of fuel and repairs, wages of operator; and also the various wages earned by tractor at various kinds of work.

Net gain for season = $368.92

Florida

1. Departments in (a) Rural Graded, (b) Approved High Schools, and (c) limited number of negro schools.

2. Implied in III J 3 of Bulletin; but not prescribed.

3. $200 - $500 laboratory equipment.

4. Not prescribed.

Florida

1. Determine to (a) Tuned Dreded, (b) Improved High
   Schools, and (c) Limited number of negro schools.
2. Implied in III 1 & 2 of Policies; not prescribed.
3. $500 - $600 laboratory equipment.
4. Not prescribed.

5. 50% of salaries of Instructors by state. 50% federal funds.

6. Yes. Class "A". "The method of instruction must be based on--

(a) Supervised projects in vocational agriculture".

7. Yes.

8. Two to four years.

Course of Study

"The course of study for vocational agricultural departments shall consist of not less than 2 nor more than 4 years work; 90 minutes a day of which time shall be devoted each year to instruction in vocational agriculture plus an equivalent amount in practice, including supervised projects and study and general instruction in agrioulture and projects".

9. Two years practical experience after the age of twelve. Must be a graduate from a state Agricultural College; or its equivalent. The minimum age shall be 21 years. One full year's course in education; or its equivalent. One half year's teaching experience of Agriculture (May be practice-teaching at University of Florida). After July 1, 1921, all applicants for positions as teachers of Vocation Agriculture shall have completed the four year's course in Vocational

5. Act of Adoption of Instrument by State. Act Internal Needs.

6. Yes. Clause "A". "The period of instruction must be [illegible]

(a) Supervision practice in vocational rehabilitation".

7. Yes.

8. Yes to four years.

Course of Study

"The course of study for vocational agricultural [illegible] should consist of not less than 1 but more than 4 years. 90 minutes a day of which time will be devoted exclusively to instruction in technical agricultural subjects also an additional amount in practice, supervised experience and study and general instruction in agriculture and related".

9. Yes there [illegible] after the era of Swiya. [illegible] be a graduate from a study institutional College or its equivalent. The minimum age shall be 21 years. One full year's course in education or its equivalent. One full year's training experience of Metropolitan (May be graduate-teaching of Universities of Nigeria). After July 1, 1951, all applicants for positions as teachers of Vocational Agriculture shall have completed the four year's course in Vocational

Agricultural Education as prescribed by the University of Florida; or its equivalent.

10. Experience of Supervisor must be two years practical farming after 13 years of age. Must have three years of teaching experience (two being in Agriculture). Must be at least 25 years of age. Must be a man. A graduate of an Agricultural College; or its equivalent. Supervision shall, temporarily be carried on by two State Rural School Inspectors.

11. Teacher-training course to be given at University of Florida. To be given only to those having the necessary practical experience. To consist of the following division of time:

(a) One-fifth of time to courses in Education (teaching of AG.)
(b) Three-fifths time to Agricultural subjects.

1. Agronomy (One month given instructor for professional improvement.)
2. Farm Machinery and Motors
3. Animal Husbandry
4. Dairy Husbandry
5. Horticulture(Plant Propagation and Breeding, Trucking, Floriculture, Citrus and subtropical fruit culture, Fruit harvesting, judging, and marketing, and) Fruit Pests and Insects.
Forestry.

(c) One-fifth of time to appropriate liberal art subjects.

Artificial Fibers as prescribed by the
Secretary of State, or its equivalent.

10. Experience of Watchlight must be two years practical
training after it years of age. Night born there
years of technical experience (two being in
Agriculture). Must be at least 30 years of age.
Must be a man. A graduate of an Agricultural
College, or its equivalent. Documentation shall
temporarily be derived on by the State Rural
School Inspector.

11. Teacher-training courses to be like by Secretary of
Fibers. To be given only to those having the
necessary practical experience. To consist of the
following division of time:

(a) One-fifth of time to be devoted to Vocational
(Industry of Ag.)
(b) Three-fifths time to Agricultural Subjects.

1.Economy (Use books given instructor for pre-
Industrial Arrangement.)
2.Farm Machinery and Rotary
3.Animal Husbandry
4.Dairy Husbandry
5.Horticulture(Plant Propagation and Pruning,
Testing,Fiber,Cultivars,Diseases and Pathological
Soil Science. Small Gardening. Variety, and
Selection, and) Fruit Trees and Insects.
Forestry.

(c) One-fifth of time to objective Library Art Subjects

12. Does for State Supervisors; not instructors.

One peculiar feature of the Florida law is the establishment of a minimum wage of white teachers at $1500; and negro teachers at $600. As a whole, the Florida plan is promising. They have gone farther than any other state in the detailed completeness in which they prescribe the teacher's training course.

Georgia

1. All day agricultural schools in special State Ag. Schools, State Negro Schools, Vocational Ag. Departments in High Schools for whites, Vocational Ag. Departments in local Negro schcols. Part time schools may be established.
2. For State Ag. Schools 200 acres of land. State Negro Schools- 50 acres of land. Others not required.
3. A State Ag. School - $800.00, State Negro School $300.00, High School for whites - $450.00, Negro school $225. $2.50 per pupil for up-keep.
4. None.
5. U. S. 50%. Local District and State 50%.

16. Does Dr. Crate Quarrington not interest you.

Use regular lettuce of the Oberlin type in the establishment of a private zoo of rare tropical fishes at 32°. Am I right, Mrs. Florida Pine in thinking. That rose upon further inquiry is correct in the tactical complete- ness to which fact prescribe the previous training course.

Diverse

1. All day registrars' schools in special State in Indiana, Peoria, State Radio Tribune, Vocational Ag. Department in Kiwi Schools for girls, Tuesday Illinois Ag. Department in local Corn schools. Vast item schools buy in established.

2. Two State in. Schools the notes of land. State State Radio Schools- 50 notes of land. Olivia not re- quire.

3. A State in, Corn - $500.00, State Radio School $500.00, that Tuesday Cow worms - $150.00, Vegre notes grade. $1.50 per truck for ag-Ranch.

4. None.

5. U. S. Soc. Local Corn-Soc-Ag-Tape Soc.

6. Emphasized. Most of project work seemed to be of class "B".

7. Yes.

8. Two required. Four recommended. "Course of study shall consist of technical instruction, shop practice, supervised practice, related work and cultural training. 45-minute period per day shall be given to related sciences."

9. Men only, 21 yrs. old. Two years adult farm experience (after 12 yrs. of age). After 1921 all teachers must have graduated from four years college course for Vocational Agriculture teachers; or its equivalent.

10. State Supervisor assisted by General High School Inspector. State Supervisor must have two years teaching of Ag. in addition to regular instructor standard. Thorough system outlined.

11. State Supervisor gives half time to teacher-training in field. One month professional improvement.

12. Yes.

The Georgia plan provides for satisfactory supervision by state and local instructors. One of the states to make furnishingof local instructor

The Georgia plan provides for satisfactory supervision by state and local instructors. One of the states to make satisfactory local instructor

9. Emphasized. Hours of project work seemed to be of

7. Yes.

8. Two required. Four recommended. Courses at study

9. Men only, 21 yrs. old. Two years adult farm experience (after 15 yrs. of age). After 1933 all teachers must have graduated from four years college course for vocational agricultural teachers; or its equivalent.

10. State Supervisor assisted by General High School Inspector. State Supervisor must have two years teaching of Ag. in addition to regular instructor standard thereby system outlined.

11. State Supervisor gives half time to teacher-training in Ind. Has model laboratories, improvements.

12. Yes.

with transportation compulsory. Peculiar features of the Georgia problem are the negro schools. They seem to have several State Agricultural Schools for whites and separate ones for negroes. They have white high schools; but mention negro schools, as if they were for grades only. Difference in pay for white and negro instructors; and exclusion of lady teachers of Agriculture are also features. Provides for the establishment of part-time schools in Agriculture.("May be established").

Iowa

1. Schools, departmental or classes.
2. Yes. Plot for demonstration purposes.
3. Not less than $500.00 Library. At least $75 per yr. for incidental expenses.
4. Ten.
5. Federal 50%. Local district 50%.
6. 18 weeks to four years. Evidently class "B". Home project, as such, not specifically mentioned. Stress upon "Farm Practice".
7. Yes.
8. Not specified. Provision in Iowa law for short courses for young farmers, also for evening classes.

Item

50% of time to be spent in farm practice occupations, and related material.

Remainder of time spent in study of such subjects as: English, History, Citizenship, Government, Mechanical Drawing, Economics, Hygiene, and physical training. Language and Mathematics elective.

9. Two years continuous practical experience since 14 years of age. Sympathy with farm work and rural life.

Graduate of four year course in Agriculture, including farm mechanics in a standard Agricultural College.

From 15 to 20 hours of Agricultural Education and Psychology. One year of supervised teaching.

10. Director of Vocational Education and Supervisor of Vocational Agricultural Instruction gives 1/10 of time to teacher training and 9/10 of time to supervision in the field.

11. Provisions for teacher-training at Ames Agricultural College are unsurpassed. Provision is made in the law that a portion of each year be allowed the

instructor for professional improvement.

12. Yes. It is suggested that the most satisfactory method is to pay instructor additional salary with the understanding that he furnish his own car.

There are two peculiar features to the Iowa Plan. One is particularly worthy of consideration. It provides that, in cities over 5000, the local Board of Education shall appoint a local advisory committee for Vocational Education, composed of persons experienced in agriculture, industry, home economics or business. The other feature is that a man must give his entire time to an agriculture class of ten; and under no circumstances may include more than thirty in his instruction.

Illinois

1. High School departments.

Normal School departments of secondary grade.

Short term courses in the above.

Part-time and evening classes in the above.

2. No.

3. $350 to 500 with $200 additional for farm mechanics.

$5.00 per pupil per year for maintainance.

4. Not specified.

5. 50% federal. 50% Local district.

Instructor for professional improvement.

13. Yes. It is understood that the most satisfactory method is to pay instructor additional salary with the understanding that he teaches his own car.

There are two positive features to the Iowa plan. One is the particularly worthy of consideration. It permits that, in cities over 8000, the local Board of Education shall appoint a local advisory committee for vocational training, composed of citizens acquainted in agriculture, industry, home economics or business. The other feature is that a man must give his entire time to an agriculture class; and either an apprentice may include more than thirty in his instruction.

Illinois

1. High School departments.

Normal School department of economics grade.

Short term course in the above.

Two-day and evening classes in the above.

2. Yes.

3. $900 to $800 when $600 additional for long preparation.

$2.00 per capita per year for maintenance.

4. Not specified.

5. Not stated. 40% local district.

6. Yes. Home project of class "B".

7. Yes.

8. One to four years. Also short courses.

Course of Study recommended

1st Yr: Farm Crops, Soils and Horticulture, with related Business English.

2nd Yr: Animal Husbandry, with related Farm Arithmetic.

3rd Yr: Farm Mechanics with related Shop Work.

4th Yr: Farm Management with related Farm Bookkeeping Business.

Supervised Farm Project each year.

9. Two years practical farm experience after age of 14. Graduate from standard four year course in Agricultural College, preferably Illinois University. In addition, the Director must have had at least two years successful teaching experience in Agriculture.

10. Supervisor of Agricultural Education. Plan very complete.

11. Before graduation at the University must have one semester of practice teaching under supervision. One month each year to be given to instructor for recreation and professional improvement. Teacher-training under Voc.Ag. Supervisor)

6. Yes. Some project of class ***.

7. Yes.

8. One to four years. Also short courses.

Course of Study recommended

1st Yr:Farm Crops, Soils and Agriculture, with related Business.

2nd Yr:Animal Husbandry, with related Farm Arithmetic.

3rd Yr:Farm Mechanics with related Farm Bookkeeping

4th Yr:Farm Management with related Farm Bookkeeping Business.

Supervised Farm Project each year.

9. Two years practical farm experience after age of 18. Graduate from standard four year course in Agriculture from accredited College, preferably Illinois University. In addition, the Director must have had at least two years successful teaching experience in Agriculture.

10. Supervisor at Agricultural Education. Plan very complete.

11. Before graduation at the University must have one semester of practice teaching under supervision. One month each year to be given to instruction in recreation and professional improvement. Thirteen- fourteen weeks Tho.Ja. Supervisor)

12. Yes.

Teacher training and supervisor plans strong features. Lack of stress on home project work weak point.

Kentucky

1. High School departments, Short courses, Part-time schools, night classes and Consolidated Schools.
2. Yes, either at school; or at home. Recommended to be at school.
3. $250 laboratory, $50 library. $2.00 per pupil per year for supplies.
4. Not specified.
5. 50% federal funds. 50% local funds.
6. Yes. Class "B" type.
7. Yes.
8. Either two or four year courses.

Two Year Type Course

First Year

First Semester	Second Semester
Rhetoric and Composition	Rhetoric and Composition
Mathematics-Algebra	Mathematics-Algebra
Farm Animals	Farm Crops, Animals
Home Project Work	Home Project Work

12. Yes.

Teacher training and supervisor plans strong features. Lack of stress on long project work.

Geology

1. High School deficiencies, Coast courses, Part-time science, night classes and Correspondence School.
2. Yes, either at school or at home. Recommended to be at school.
3. $250 laboratory, $50 library. $1.00 per pupil per year for magazines.
4. Not specified.
5. 80% Federal funds. 20% local funds.
6. Yes. Plans for type.
7. Yes.
8. Either two or four year courses.

Two Year Course

First Semester	Second Semester
Engineering and Composition	Physics and Composition
Mathematics-Algebra	Mathematics-Algebra
Pure Science	Pure Science,Algebra
Term Project Work	Term Project Work

Second Year

First Semester	Second Semester
Literature and Classics	Literature and Classics.
Mathematics or History	Mathematics or History
Soils and Crops	Soils and Crops
Home Project Work	Home Project Work

(For Four Year Course of Study see III B).

9. Graduates of a standard College of Agriculture or graduates from scientific courses of standard colleges who have had three years practical experience since the age of twelve. All must have had a tenth part of the course in Education.

10. Director of Vocational Education to have an assistant to supervise the work in agriculture. He must have in addition to the requirements of teachers, two years successful teaching experience in Agriculture; and one year in a supervisory position.

11. From four to six weeks each year shall be allowed the instructor for professional improvement.

For white teachers the training will be given at the University of Kentucky in the Agricultural department. For colored teachers the work is offered in Kentucky Normal and Industrial Institute.

First Semester	Second Year Second Semester
Literature and Translation	Literature and Translation.
Mathematics or History	Mathematics or History
Soils and Crops	Soils and Crops
Home Project Work	Home Project Work

(For Four Year Course of Study See III B).

9. Graduates of a standard College of Agriculture or Agriculture from scientific courses of standard colleges who have had three years practical experience since the age of twenty. All must have had a short part of the course in Vocation.

10. Direction of Vocational Education to those on service will be supervise the work in agriculture. We must have in addition to the requirements of teachers, two years successful teaching experience in Agriculture; and come year in a supervisory position.

11. Free tuition to the white male boys only be allowed the institution for professional improvement. For white females the training will be given at the University of Kentucky in the Agricultural department. The colored teachers the work is offered in Industry Normal and Industrial Institut

Itinerant teacher-training is provided for by visits by the Assistant Director, by pamphlets and correspondence.

12. No.

The courses of study smack noticeably of the old classical traditions. The project work does not appear to be given the attention accorded it by some state plans.

Massachusetts

1. County Agricultural Schools and High School Departments.
2. No. Many have them, however.
3. Adequate.
4. Not specified.
5. State pays 2/3 the salaries of instructors; and half the cost of maintainance of County Agricultural Schools.
6. Strongly emphasized. Class A, Home Project controls instruction.
7. Yes.

12. No.

8. Four years. The work of each year is centered around that year's project of the individual. While some attempt is made to interest groups in similar projects during a given season, the work is individual tutoring in nature.

9. Three years practical farming. Must also have collegiate and professional training.

10. Vocational supervisors and Directors.

11. Teachers have one month for recreation and two months for professional improvement each year. Are hired for twelve months.

12. Not specified. Implied.

The work in Massachusetts is characterized by the featuring of the "home project". It also has a very well worked out system for the professional improvement of its instructors. Community work, club work, a considerable development of the County Agricultural School, and thorough supervision of the work is noticeable.

Missouri

1. High School Departments. Schools of Agriculture.

2. Yes.

3. Sufficient laboratory equipment for testing milk,

8. Four years. The work of each year is centered around that year's project of the industries. While some attempt is made to interest groups in simple projects during a given season, the work is individual tutoring in nature.

9. Three years vocational training. Most also have collegiate and professional training.

10. Vocational supervisors and directors.

11. Teachers have one month for preparation and two months for professional improvement each year. Are hired for twelve months.

12. Not specified. Implied.

The work in Pasadena is characterized by the featuring of the "home project". It also has a very well worked out system for the professional improvement of its instructors. Community work, club work, a recreational development of the County Agricultural School, and thorough supervision of the work is noticeable.

Missouri

1. High School Requirements. Points of difficulties.

2. Yes.

3. Sufficient laboratory equipment for leading city

grafting trees, incubating eggs, testing soils, making butter etc. Library and farm shop.

4. Not designated.

5. State in Sec.(1) proceedings of Fiftieth General Assembly matches dollar for dollar of Federal funds appropriated to Missouri.

6. Strongly recommended. Class A instruction to be controlled by project on hand. "Must be closely correlated, taught as unit".

7. Yes.

8. Two years. Plan to increase to three year course in 2nd class High Schools and four years in 1st class High Schools.
   1st yr. -Eng.1,Math.1,Farm Mech., and Gen.basic course in Agr. 2,
   2nd yr. -Eng.1,Civics 1,Farm Crops,A.H.,Soils and Hort. 2.

9. Four year college - 120 hrs - 40% agriculture -20% related. 15% education. Two years practical farm experience. (Less may be accepted pending time for adjustment).

10. State Director of Vocational Education. State supervisor of Agricultural Education. Qualifications

for supervisor are same as for instructor plus at least two years teaching of agriculture.

11. "Will be given time off for professional improvement".

12. Yes. In addition the amount of $5.00 per pupil must be set aside to provide for necessary materials, expenses, etc.

1917-18 The work in the Missouri schools seems to be yet in the experimental stage; and has far to go to come up to standard. The words of the State Director of Vocational Education show something of the uncertainty with which they have so far attacked the problem. He says " Our motto this year should be 'Let us do our best under the conditions as we find them' ! Only one school in the state has instruction in the second year of Agricultural course at present.

1919-20 Shows a careful plan and liberal provisions and appropriation. Although slow to start, Missouri shows fully up to standard for 1919-20.

Montana

1. Departments in County High Schools and approved High Schools.

2. Not prescribed.

3. Laboratory equipment costing at least $350, plus $200

Questions

1. Departments in County High Schools and approved High Schools.

2. Not prescribed.

3. Laboratory equipment consists of Janet £500, plus £200

for equipment for farm mechanics. $135 library - $50 per year new books.

4. Eight to twelve is minimum.

5. 50% federal funds. 50% state. Due to shortage of funds thus far the combined aid has totaled about 60% of salaries of teachers of Vocational Agriculture.

6. Yes. Class "A".

7. Yes.

8. Four year course of study. Following course recommended: (See III B)

9. Two years practical farming. Age 21, at least. Four year course in standard Agricultural College. Meet other state requirements for certification by state Board of Education.

10. State Director of Vocational Education. State Supervisor of Agricultural Education. Supervisor must assist in organizing new courses, inspect the work of teachers; and report annually.

11. A very definite course for teachers of Vocational Agriculture is prescribed, which includes "practice teaching". This course is offered

for straight for this mechanics. $150
library = $50 per year two books.

4. Right to expire is minimum.

5. 50% federal funds. 50% state. Due to shortage of funds this for the combined all has befallen about 60% of salaries of teachers of Vocational Agriculture.

6. Yes. Class "A".

7. Yes.

8. Four year course of study. Following course recommended: (Sec III B)

9. Two years practical farming. Use #1, at least. Four year courses in standard Agricultural College. Meet other state requirements for certification by state Board of Education.

10. State Director of Vocational Education. State Supervisor of Agricultural Education. Supervisor must assist in organizing new courses, inspect the work of teachers; and report annually.

11. A very definite course for teachers of Vocational Agriculture is prescribed, which includes "practice teaching". This course is offered

at the State School of Agriculture and Mechanic Arts at Bozeman. The Pres. of the college is director of teacher-training; and also must conduct itinerant teacher-training courses.

12. Yes.

The Montana plan seems carefully planned. It shows a more detailed study than most of states, in so far as available information indicates. Similar to the Iowa Plan, it features the Short Course. In its Course of Study an unusual emphasis is laid on the subject of English, one-fourth of the high school course being devoted to the study of English.

Michigan

1. Both. High School courses; and County Agricultural Schools.

2. Yes. Size not specified.

3. $100.00 per year for upkeep.

4. 12 students.

5. State pays for teacher-training, 50%, U. S. 50%.
" " " teachers 25%, U.S. 50%, Local district, 25%.

6. Emphasizes "Home Project". Home project of class "B".

12. Yes.

The Moreton plan seems generally planned. It shows a more detailed study than most of entries, in so far as available information indicates. Similar to the Town Plan, it features the Short Courses. In the Courses of Study at unusual moments is laid on the subject of English, one-fourth of the High School course being devoted to the study of English.

Winslow

1. Both. Mid-Co Normal courses; and County Agricultural Schools.

2. Yes. Sites not specified.

3. $100.00 per year for upkeep.

4. 12 students.

5. Plans pure for Smaller-Trades. 60%,0. 8. 80%.

" " Engineers and D.T. 80%, Some Handicraft 20%.

6. Emphasizes "Home Projects". Does project of plans "B"

7. Yes.

8. Three required. Four recommended. In County School of Agriculture two years required.

9. Two years practical experience. Graduate of Agricultural College with at least 10 hours education credits.

10. State supervisor of Agriculture, appointed by State Board.

11. Portion of vacation time must be spent in study.

12. Yes.

Farm project must require at least 144 hours. Students' contract must also be signed by parent or legal guardian in order to make them legal. Close supervision, well prepared instructors, and specific provision for transportation mark the Michigan law.

Course of Study by Years

1st Plant life and its applications/ 1 sem.
Mech.Drawing and farm carpentering / 1 sem.

2nd Farm crops and horticulture/ 1 sem. each.

3rd Animal husbandry/ whole year.

4th Soils and fertilizers/ 1 sem.
Farm management and farm mechanics/ 1 sem.

(See III B for more detailed Course of Study)

7. Yes.

8. Three majority. Four recommended. In County Schools of Agriculture two years required.

9. Two years practical experience. Graduate of Agricultural College with at least 72 hours satisfactory credits.

10. State supervisor of Agriculture, appointed by State Board.

11. Portion of vacation time must be spent in study.

12. Yes.

Farm project must require at least 144 hours. Students' contract must also be signed by parent or legal guardian in order to take this legal. Plans supervision, well organized instruction, and adequate preparation for responsibilities must characterize the Virginia Ive.

Courses of Study by Years

1st Year. Farm life and its application \ 1 sem.
Work. Farming and farm arithmetic \ 1 sem.

2nd Farm crops and horticulture \ 1 sem. each.

3rd Animal husbandry \ whole year.

4th Soils and fertilizers \ 1 sem.
Farm management and farm mechanics \ 1 sem.

(See III B for more detailed Courses of Study)

Nebraska

1. High School Departments (A) County High Schools, (B) Consolidated schools, (C) Rural High Schools, (D) City High Schools "It is proposed that such schools may be reimbursed from federal funds for the salaries of vocational agriculture".
2. No. Home project preferred. Plot for experiment at school approved.
3. Annual report must be made to state department, showing just what equipment, in good condition, is on hand. For from 12 to 30 pupils -- $250 to 500. $200 to 350 for farm mechanics. $5.00 per pupil per annum for maintainance expense of supplies.
4. Not specified.
5. 50% federal. 50% state support.
6. Yes. Class A instruction correlated with the Home project.
7. Yes.
8. Four years. Agriculture work of four years selected from -- Gen. Agriculture, A. H., Crops and Soils,

Problems

1. High School Departments (1) County Unit Schools,
(2) Consolidated schools, (3) Rural High Schools,
(4) City High Schools "It is proposed that rural
schools may be reimbursed from federal funds for
the salaries of vocational agriculture".
2. Yes. Many projects proposed. Plot for adjustment
as school approved.
3. Annual report must be made to state department,
showing just what equipment, in room & building,
is on hand. Per cred it to DO pupils -- $150 to
$600. $300 to $50 for farm mechanics. $5.00 per
pupil per annum for maintainance expense of
supplies.
4. Not required.
5. 50% Federal. 50% state support.
6. Yes. Plans & instruction correlated with the Home
Project.
7. Yes.
8. Four years. Certificate; A. B., Degree and Skills
from -- Dep. Agriculture; A. B., Degree and Skills

Farm Shop Work, Poultry Husbandry, Dairy Hus., Hort., Farm Accounting, Farm Management. ½ unit per yr. allowed for field work on project. (Detailed course III B)

9. Practical experience, education in agriculture and teaching experience desired in instructor. Laboratory work and field project work strongly emphasized. Four year Ag. College graduate with two years practical farm experience.

10. State Director of Vocational Education and State Supervisor of Agricultural Instruction. "He shall assist in training teachers in service by conferences, correspondence, publications, and personal inspection of work done".

11. All teacher-training to be at University of Nebraska under the supervision of State Supervisor of Agriculture and general supervision of the State Vocational Director.

12. No.

Material at hand shows Nebraska to have very thorough system of state supervision. Forms of reports required by state department of special interest. State Supervisor very frank in stating that he feels that previous work in the state

has not been of the kind desired. Seems to promise efficient work in that line when organization gets under way. He emphasizes the need for real "home project" work.

New York

1. High School Departments; and Schools of Agriculture.
2. Power given to board to purchase.
3. "Adequate".
4. 15.
5. 2/3 of salary not exceeding $1000.
6. Emphasized. Apparently of class A. "Practical work should correlate with suitable technical teaching".
7. Yes.
8. Not specified. Work to be adapted to local community. In addition to practice work, "they should teach mathematics, drawing, science and related subjects, to an extent, and in a way practically useful to the pupil".
9. Special Certification by Commissioner of Education. Specially trained. Two year graduate from profession-

has not been of the slightest. Hence to consider difficult work is fair like much organization work right now. We sugge the need for rural "home projects" work.

Item Two

1. High School Departments; and Schools of Agriculture.
2. Power given to board to increase.
3. "Adequate".
4. 12.
5. 2/3 of salary not exceeding $1000.
6. Emphasized. Supervisory of class A. "Practical work should correlate with suitable technical teaching".
7. Yes.
8. Not specified. Work to be adapted to local community. In addition to practice work, "they should teach mathematics, drawing, science and related subjects to an extent, not to a very practical manner to the pupil".
9. Special Certification by Superintendent of Education. Practically training. The year graduate from professio

al school; or extra special practical qualifications.

10. State Commissioner of Education.

11. State Agricultural Schools at St. Lawrence University, Alfred University, and Morrisville may give courses for the training of teachers in agriculture.

12. Not indicated.

Peculiarity of New York law in not making employment of all instructors for 12 months. However, makes difference in appropriation. One-third of teacher's salary employed for 36 wk. (if an additional teacher), two-thirds of first teacher's salary, and an extra $200 if this teacher is employed for 12 months. Has three Agricultural Teacher-Training Schools.
(Pay status as given in bulletin of 1913)

North Carolina

1. High School departments. (8th.-9th.-10th.-11th.grades)
2. School farm of from 50 to 100 acres recommended.
3. Not specified. Recommended that most of equipment be made at school. Room with movable tables and chairs required.
4. Not specified.

al schools or extra special practical qualifica-
tions.

10. State Commissioner of Education.

11. State Agricultural Schools at St. Lawrence University
Alfred University, and Morrisville may give course
for the training of teachers in agriculture.

12. Not indicated.

Regulations of New York law in not making employ-
ment of all instructors for 12 months. However,
makes difference in appropriation. One-third of
teacher's salary employed for 36 wk. (If an
additional teacher), two-thirds of first teache
salary, and an extra $400 if this teacher is
employed for 12 months. Has three Agricultural
Teacher-Training Schools.
(Pay status as given in Bulletin of 1923)

North Carolina

1. High School departments. (8th.-9th.-10th.-11th.grade

2. School term of from 80 to 100 acres recommended.

3. Not specified. Recommended that most of equipment b
made at school. Farm with movable tables and chai
required.

4. Not specified.

5. 50% Federal funds. 50% State and local community.

6. No. Either home projects or work on the school farm is required. Projects offered are of type "B".

7. Yes.

8. Four years. Short courses of 6--8 weeks also recommended. (Complete four year Course of Study - see III B)

9. Not specified.

10. State Director of Vocational Education; and a State Supervisor of Agricultural Education. Monthly reports are required by the Supervisor from the instructors.

11. Some of the teacher-training work carried on is by the bulletin method, giving methods, references, questions, etc.

12. Not specified.

The North Carolina plan lays more than the usual stress on the school farm, recommending from 50 to 100 acres of land, stocked up with the best grade of animals etc.

"The failure of a teacher of Agriculture, who has the operation of a school farm, to provide a good garden, both Summer and Winter, should be considered just cause for withholding State and Federal appropriations."

8. 80% Federal funds. 20% State and local community.

6. No. Either Home Projects or work on the school farm is required. Projects offered are of type "B".

7. Yes.

8. Four years. Short courses of 8--8 weeks also recommended.

(Complete four year Courses of Study - see III B)

9. Not specified.

10. State Director of Vocational Education; and a State Supervisor of Agricultural Education. Monthly reports are required by the Supervisor from the instructors.

11. Some of the teacher-training work carried on is by student-training method, visit method, reference, questionnaire, etc.

12. Not specified.

"The future of a teacher of agriculture, who has the opportunity of a school farm, to provide a good program, both summer and winter, should be considered just cause for withholding State and Federal appropriations."

Oregon

1. a) All day or department. b)Part-time or dull season classes. c) Evening classes, for men over 16 years of age.
2. Yes. "Land for experimental and instructional purposes."
3. $500 laboratory. $20 library initial expenditure. $100 annual fund at command of instructor for incidental expenses. $10.00 per annum per pupil for maintainance in addition to the $100 annual fund referred to.
4. Not specified.
5. 50% Community. 50% federal.
6. 6 months farm practice required. Home projects recommended. "In most cases, productive projects with reasonable assurance of a profit are most desirable". Practical work of class "D" required and class "B" recommended.
7. Yes. A minimum salary of $1200 per annum.
8. Four years.

(Complete Suggested Course of Study on III B)

Grades

1. a) All day or department. b) Part-time or dull courses
classes. c) Evening classes, for men over 16 years
of age.
3. Yes. "Land for experimental and instructional pur-
poses."
2. $500 laboratory. $50 library initial expenditure.
$100 annual fund at command of instructor for in-
cidental expenses. $10.00 per annum per pupil for
maintenance in addition to the $100 annual fund
referred to.
4. Not specified.
6. 80% Community. 20% federal.
8. A position fairly practical required. Those projects re-
commended. "In most cases, productive projects with
reasonable assurance of a profit are most desirable
Practical work of class "B" required and class "B"
recommended.
7. Yes. A minimum salary of $1500 per annum.
8. Four years.

(Completed Questionnaire Courtesy of Study on III F)

9. Two years practical farm experience. Graduate of four year agricultural course from a standard Agricultural College. His course must have included the following subjects: a) Soils, b) Farm Crops, c) Animal Husbandry, d) Horticulture, e) Rural Engineering, f) Farm Management. He must have 15 hrs. Education. He must have had practice teaching. (Director same standard.)

10. The Oregon State Agricultural College will make a formal transfer of the professor of Agricultural Education to the state board of vocational education to supervise the vocational work in agriculture.

11. The training of teachers will be done by the Oregon State Agricultural College which has conducted similar courses for five years.

This training will be under the supervision of the state board of vocational education.

The course of study will include fifty per cent of technical instruction in Agriculture, fifteen per cent of Agricultural Education subjects including practice teaching, 20% of related and allied subjects, 15% of approved electives.

9. Two years practical farm experience. Graduate of four year agricultural course from a standard Agricultural College. His course must have included the following subjects: a) Dairy, b) Farm Crops, c) Animal Husbandry, d)Horticulture, e) Rural Engineering, f) Farm Management. He must be 18 yrs. of age. Graduation. He must have had practice teaching. (Director name attached.)

10. The Oregon State Agricultural College will make a formal transfer of the professor of Agricultural Education to the state board of vocational education to supervise the vocational work in agriculture.

11. The training of teachers will be done by the Oregon State Agricultural College which has conducted similar courses for five years.

This training will be under the supervision of the state board of vocational education.

The courses of study will include fifty per cent of technical instruction in Agriculture, fifteen per cent of Agricultural Economics including practice teaching, 35% of related and allied subjects 15% of approved electives.

The entrance requirements are two years practical farm experience plus high school graduation. The graduates are certificated by the state board of education.

12. Yes.

The Oregon law is featured by the adequacy of the required financial backing of the agricultural instructor. The provision of transportation for a well equipped instructor plus the liberal maintainance fund should bring good results.

Oklahoma

1. High School Departments and State and District Agricultural schools of secondary grade. Part-time and Evening Classes.

2. Desirable to have at least one acre for experimental work.

3. Suitable room, library of at least $50, adequate laboratory equipment, and subscribe to at least 3 or 4 farm papers. $5.00 per pupil maintainance fee.

4. At least six.

The entrance requirements are the same as those for the regular high school graduation.

The programs are controlled by the state board of education.

18. Fee.

The Smith-Hughes law is featured by the adequacy of the required financial backing of the agricultural instruction. The provision of the law is a well applied instructor plus the liberal supervision that usually brings good results.

Oklahoma

1. High School Departments and State and District Agricultural schools of secondary grade. Part-time and Evening Classes.

2. Available to boys at least one acre for supervised work.

3. Suitable room, library of at least five, reference books, and subscribe to at least 3 or 4 farm papers. $15.00 per pupil maintenance fee.

4. At least six.

5. State 1/6, Local Community 1/3, Federal Funds 1/2.

6. Yes. Type "B". At least 360 hours.

7. Yes.

8. Four year course for All Day school.
(For detailed Course of Study see III B)

9. Two years practical farm experience; 21 years of age; a graduate of standard four year Agricultural College carrying 130 semester hours of which at least 40 hours are strictly practical or technical, 12 hours allied subjects, and 15 hours of professional work including practice teaching.

10. State Vocational Director and Agricultural Supervisor. Qualifications of Agricultural Supervisor are the same as for Instructor plus at least two years successful teaching experience in Agriculture.

11. Teacher-training at A. and M. College at Stillwater, Oklahoma. Prerequisites to the course are (1) Two years practical farm experience, and (2) graduation from standard high school.
The course includes as a practical feature actual practice-teaching work for 75 hours in the secondary Agricultural school maintained in connection with the

5. State 1/2, Ethyl Chemistry 1/2, Federal Trade 1/2.

6. Tue. Type "B". At least 300 words.

7. Tue.

8. Test year ordering for All Day School.

(For daytime Course of Study see 'II' S)

9. Two years practical farm experience; 21 years of age,
a graduate of standard four year high school; single
carrying 120 academic hours of which at least 30
hours are objectively practical or technical, 12 hours
allied subjects, and 12 hours of professional work
including practice teaching.

10. Fifth Vocational Director and Agricultural Supervisor
Qualifications of Agricultural Supervisor are the
same as for Instructor plus at least two years
successful teaching experience in Agriculture.

11. Two-hour-training of 4. and 5. Duties of Eligible
Children. Reimbursable to the amount and (1) Two
years practical farm experience, and (1) graduation
from standard high school.

The course included as a practical feature actual
building-improving jobs for 75 hours in the beginning
agricultural school maintained in connection with

college.

"Improvement of teachers in service is the function of the State Supervisor. He will require professional reading and reports in the form of theses from each vocational teacher in addition to attendance upon state and district conferences which may be called."

12. Yes.

South Dakota

1. High School departments, and state schools maintaining departments of secondary grade. Part-time and evening short courses.
2. Approved; but not required.
3. Suitable room, reference books, laboratory equipment, filing cases, subscription to farm journals, classified bulletins and filing cases. The initial cost of laboratory equipment to be not less than $500. At least $5.00 per pupil per year to be set aside for use of instructor for necessary materials.
4. If 25% of pupils are from farm homes, an initial enrollment of 10 pupils will be approved for aid. If that is not the case, 15 is the required number.

college.

"Interest is included in every lesson in the
[illegible] of the Tutor Supervisor. He will
[illegible] present school texts and practice
[illegible] the form of lessons from each vocational
[illegible] to adjustion to a [illegible] upon
[illegible] of [illegible] completed [illegible] may be
[illegible]."

13. Yes.

Fourth Period

1. [illegible] Department, and state [illegible]
[illegible] of [illegible] area. Part-time and
evening [illegible] courses.

2. Apparently but not required.

3. Building code, reference books, laboratory equipment,
floor [illegible], subscription to farm journals, circu-
lation [illegible] and filing cases. The initial cost
of laboratory equipment to be not less than $100.
At least $5.00 per pupil per year to be set aside
for use of [illegible] for [illegible] materials.

4. If 35% of pupils are over late hours, an initial en-
rollment of 10 pupils will be approved for aid. If
that is not the case, it is the regular number.

There must be at least 6 enrolled in each year of the course given state aid.

5. At present the state furnished approximately 30%, local community 20% and Federal funds 50%.

6. Project method of two types - school or class projects and individual projects. Class "B" type projects.

7. Yes.

8. Four years.
(For detailed course of study see III B)

9. Age 21 years. Graduate of standard four year course in Agricultural College, which course shall include at least 42 hrs. strictly technical or practical work in Agriculture, 18 hrs. in allied subjects, 12 hrs. Ag. Education, 3 hrs. Psychology, and 5 hrs. practice teaching of vocational Agriculture. At least two years practical farm experience, one of which must have been continuous.

10. The Vocational Board of Education through a representative must visit and inspect the work in each state-aid school at least once each quarter. They expect to have a Vocational Director soon.

7. Yes.

8. Four years.

(For detailed course of study see III B)

9. Age 21 years. Graduate of standard four year college t
Agricultural Diploma, which course will include
at least 45 hrs. Agricultural technical or practical
work in agriculture, 18 hrs. In allied subjects,
i.e. Hr. Economics, 3 hrs. Psychology, and 9
hrs. practical teaching of vocational Agriculture.
It is/of the above practical work experience, one
of which must have been pedagogy.

10. The Vocational Service of Agriculture through a representa
tive must visit and inspect the work in each eligible
dept. school at least once each quarter. They also
be both a Vocational Director home.

11. The training of teachers shall be conducted in this state at the State College of Agriculture and Mechanic Arts at Brookings.

12. Yes.

Texas

1. Departments in High Schools, Vocational Agricultural Schools, part-time or evening classes for vocational agriculture.

2. Yes. A minimum of one acre. For Voc. Ag. Schools a minimum of 10 acres.

3. $200 for departments. $500 for Voc. Agricultural Schools.

4. Not specified.

5. 50% federal funds. 50% local funds. An appropriation was made by the state to guarantee good faith; and to be used only "in case of necessity to preserve the good name of the state".

6. Yes. Class "B" type of projects.

7. Yes. A minimum wage of $1200.

11. The training of teachers shall be conducted in such
state as the State Colleges of Agriculture and
Mechanic Arts or Normals.

12. Yes.

Texas

1. Departments in High Schools, Vocational Agricultural
Schools, part-time or evening classes for vocation-
al agriculture.

2. Yes. A minimum of one acre. For Voc. Ex. Schools a
minimum of 10 acres.

3. $150 for Department. $800 for Voc. Agricultural
Schools.

4. Not specified.

5. Buy federal lands. Buy local lands. In appropriati
ons made by the state to guarantee bond issue, and
to be used only "in case of necessity to preserve
the good name of the state".

6. Yes. Class "B" type of projects.

7. Yes. A minimum sum of $1500.

8. Four years of work. "50% of time to vocational work including instruction in Agriculture, demonstrations, supervised projects, and supervised study in Agriculture and Project work". Three bulletins prepared by their department (Bulletin 92-A Year's Course in General Agriculture, Bulletin 93-A Year's Work in Plant Production, Bulletin 94-A Year's Work in Animal Production) give some idea of the type of work expected. The making of the Course of Study, however, is left to the respective boards. They outline their proposed Course; and submit it to the State Board of Vocational Education with their application for approval.

(State Board of Education acts as Vocational Education Board.)

9. Must be a man, at least 21 years of age. Graduate of a standard Agricultural College or its equivalent. One full year's course in education. One-half year's teaching of Agriculture in a secondary school. Two years practical experience after 12th year.

"After July 1, 1921, eligibles for positions as teachers, supervisors, and directors of Vocational Agriculture shall have completed a four year's college course in Vocational Agricultural Educa-

8. Four years of work. "90% of time to vocational work including instruction in agriculture, demonstrations, supervised projects, and supervised study in agriculture and English work". Three Multiples granted by State Department (Multiple 92-A Year's Course in General Agriculture, Multiple 93-A Year's Work in Farm Production, Multiple 94-A Year's Work in Animal Production) give some idea of the type of work expected. The making of the Course of Study, however is left to the respective boards. They outline their proposed courses, and submit it to the State Board of Vocational Education with their application for subsidy.

(Here Board of Education acts on Vocational Agriculture Bureau.)

9. Must be a man, at least 21 years of age. Graduate of a standard agricultural college or its equivalent. One full year's course in education. One-half year's practice of agriculture in a secondary school for three years certified experience after 1925 year.

"After July 1, 1925, eligible for positions as teachers, supervisors, and directors of vocational agriculture must have a first year's college course in Vocational Agricultural Educa-

tion. Candidates for admission to have 14 units of high school work. Such a course will provide for 144 hours work, at least 40 hours of which must be technical agriculture and from 15 to 24 hours professional training, including supervised practice teaching in secondary agriculture. Upon the completion of this course, a permanent teacher's certificate will be granted by the State Department of Education".

10. Have both a Director and Assistant Director of Vocational Agriculture.

11. The Agricultural and Mechanical College is selected for the training of white teachers, for colored teachers, the Prairie View Normal and Industrial Institute. (See par. 9.)

Frequent conventions of Vocational Agriculture teachers have been held; and comprehensive programs were carried out.

Committees were appointed to make special studies and reports on agricultural problems.

12. Yes. Board of Education must also provide clerical assistance, stationery and all necessary equipment before approval is granted by the State Board of Vocational Education.

10. Have been a Director and Assistant Director of Vocational
Agriculture.

11. The Agricultural and Mechanical Colleges is selected for
the training of both teachers, for colored teachers
the Prairie View School and Tuskegee Institute.
(See par. 9.)

Frequent conventions of Vocational Agriculture teachers
have been held, and conferences problems were
carried out.

Committees were appointed to make special studies and
reports on agricultural problems.

13. Yes. Board of Education must also provide electrical
maintenance, machinery and all necessary equipment
before approval is granted by the State Board of
Vocational Education.

Tennessee

1. High School Departments.
2. Not specified.
3. $250 of laboratory equipment, a separate room with movable chairs and tables, and an allotment by board of education of $2.00 per pupil per year for materials.
4. Not specified.
5. Federal funds 50%. State and local community 50%.
6. Yes. Reports on projects must be rendered to State Supervisor each month.
7. Yes.
8. Four years.
   (For complete Course of Study see III B)
9. Must be a graduate from a standard College of Agriculture. Must have had at least two years practical farm experience.
10. A State Director of Vocational Education and a State Supervisor of Agricultural Education.
11. The Instructor "must spend at least two weeks each year in professional improvement." Minimum salary

Instance

1. High School Department.
2. Not specified.
3. Head of laboratory equipment, a separate room with movable desks and tables, and an allowance by board of education of $5.00 per pupil per year for materials.
4. Not specified.
5. Federal funds 50%. State and local community 50%.
6. Yes. Reports on projects must be rendered to State Supervisor each month.
7. Yes.
8. Four years.

(For complete Course of Study see III B)

9. Must be a graduate from a standard College of Agriculture and have had at least two years practical farm experience.
10. A State Director of Vocational Education and a State Supervisor of Agricultural Education.
11. The Instructor "must spend at least two weeks each year in professional improvement." Minimum salary

$1200 per year.

12. Not specified.

A feature of the Tennessee plan peculiar to that state, in so far as we have seen, is the requirement of monthly reports by the instructor to State Supervisor on each project.

A desirable feature of Mr. Clement's bulletin is a comprehensive bibliography of reference bulletins and books.

Utah

1. a) Part-time Agricultural Courses. b) Evening Schools. c) Short Dull Season Schools. d) High School Departments.

2. School farm mentioned in outline of courses; but is not stipulated as a requirement.

3. $250 to $500 with $200 additional for farm mechanics equipment. Suitable rooms and laboratory. $5.00 per pupil to be set aside by board each year for material.

4. Not specified.

5. 50% state. 50% Federal funds.

6. Yes. Type "B" of Home project. (Waived "in case of

$3500 per year.

12. Not specified.

A feature of the Tennessee plan peculiar to that state, in so far as we have seen, is the requirement of monthly reports by the instructor to State Supervisor on each project.

A desirable feature of Mr. Diamond's bulletin is a comprehensive bibliography of reference bulletins and books.

Utah

1. a) Part-time Agricultural Courses. b) Evening Schools
c) Short Unit Course Schools. d) High School -
Departments.

2. School Fire mentioned in outline of courses; but it
not obligatory as a requirement.

3. $250 to $500 with $100 additional for farm mechanics
equipment. Variable rules and laboratory. $3.00
per unit to be set aside by board each year for
material.

4. Not specified.

5. Dept. state. SDF Federal funds.

6. Yes. Type "B" of Home project. (Method "In lieu of

necessity").

7. Yes.

8. From one to four years.
(For complete Course of Study seeIII B)

9. 2 years of practical farm experience. Must be 21 years of age. Must be graduate of standard Agricultural College with at least 48 hours of Agriculture, 18 hours in allied subjects, and 12 hours of professional work including 3 hours of practice teaching. Fitted for leadership in the community.

10. Supervisors of Agriculture shall meet the standards and qualifications of the Instructor of Agriculture. In addition they shall have had at least two years successful teaching or supervising of Agriculture. He shall assist in the establishment of new courses, supervise the work of the teachers, have charge of teacher-training, and make reports to the Director of Vocational Education.

11. The University of Utah has been designated to train teachers for Smith-Hughes work. Only men having the prerequisite practical experience are to be trained. It is recommended that the teacher be

degree(s)*.

7. Yes.

8. Pass one in four years.

(For completed Course of Study see(s) II)

9. 3 years of practical farm experience. Must be 21 years of age. Must be graduate of approved Agricultural College with at least 45 hours of Agriculture, 18 hours in allied subjects, and 12 hours of professional work including 3 hours of practice teaching. Rated for leadership in the community.

10. Supervisors of Agriculture shall meet the standards and qualifications of the Instructor of Agriculture. In addition they shall have had at least two years successful teaching or supervising of Agriculture. He shall assist in the establishment of new courses, supervise the work of the teachers, have charge of Summer-training, and make reports to the Director of Vocational Education.

11. The University of Utah has been designated to train teachers for Smith-Hughes work. Only men having the prerequisite practical experience are to be trained. It is recommended that the teacher be

allowed one month during the dull season to improve himself professionally. At least one week must be given the instructor for the purpose of visiting schools where the work is being offered.

12. Yes.

One feature peculiar to the Utah plan is their variety of Plans for the Supervised practice work. They require home projects; but provide four kinds of projects:

A. Individual ownership Method.
B. Individual lease Method.
C. Apprenticeship Method.
D. Home Employment Method.

Virginia

1. High School departments, part-time, and evening schools.
2. Yes. Five acres.
3. Suitable room, a minimum of $350 for laboratory equipment. Suitable cabinets, at least 35 reference books and 100 bulletins properly classified, subscribe for at least five farm journals, and have farm shop 30/50 equipped by at least $750. At least $5.00 per pupil per annum for maintainance.

13. Yes.

4. Not fewer than 10.

5. State 50%. Federal fund 50%.

6. Yes. Class "A" type of instruction. "The vocational work shall be based on the home project".

7. Yes. Minimum salary $1500.

8. Four years for regular course.

(For complete course of study see III B)

9. Two years of practical farming or "intimate contact" with such work. Graduate of standard four year course in Agriculture based on standard high school course. Sympathy with farm life.

10. State vocational Director and Agricultural Supervisor.

The plan of supervision shall include:

a) Improvement of teachers in service.
b) Inspection of schools.
c) Assistance in the establishment of new schools and classes.
d) Preparation of special bulletins and other special literature.

11. Teacher-training at Virginia Polytechnic Institute.

Each teacher to be given time for professional improvement. Improvement of teachers in service:

1) Definite reports from local instructor to State Sup.

4. Not fewer than 10.

5. Make 50%. Talked down 80%.

6. Yes. Class "A" type of instruction. "The vocational work shall be based on all those projects".

7. Yes. Highway safety film.

8. Four years for regular courses.

(For complete courses of study see III E)

9. Two years of practical training or "intimate contact" with avon work. Graduate four year course in agriculture based on standard high school course. Employ only with farm life.

10. State vocational director and agricultural supervisor.

The plan of supervision would include:

a) Improvement of teachers in service.
b) Inspection of schools.
c) Assistance in the establishment of new schools and classes.
d) Preparation of special bulletins and other special literature.

11. Teacher-training at Virginia Polytechnic Institute.

Such income to be given them for professional improvement. Improvement of teachers in service:

1) Definite regents from local inspector to State Dep.

2) State and sectional meetings of teachers.
3) A period of professional improvement for teachers.
4) Co-operation between teacher-training institutions and state supervisory staff for co-ordination of teacher-training.

12. Not specified.

3) State and territorial meetings of teachers.
2) A feeling of professional improvement for teachers.
1) Co-operation between Secondary-Printing Institutions and state supervisory staff for co-ordination of two-year-training.

13. Not specified.

III. Studies of representative states.(Continued)

B. Detailed Suggestive Courses of the following states:

Arizona

California

Connecticut

Colorado

Kentucky

Montana

Michigan

Nebraska

North Carolina

Oregon

Oklahoma

South Dakota

Tennessee

Utah

Virginia

III. Studies of retrospectivity rates. (continued)

B. Retrospective Questionnaire Surveys of the following states:

Arizona

Course of Study (45 Min. periods)

Period	1st yr.	2nd yr.	3rd yr.	4th yr.
1	Agr.Arith.	Animal Husbandry	Geometry	Soils & Horticulture
2	English	" "	Rural Law & Civics	"
3	Study)	Commercial Project	Agr. Chem.	Commercial Project
4	Am.History	" "	" "	" "
	Noon			
5	Agronomy	English	Farm Management	Applied Physics
6	"	Algebra	" "	" "
7	Commercial	Elective	Commercial Project	Agricultural
8	Project	"	" "	Biology

Note - Farm Management will include Farm Accounts and Farm Mechanics.

Arizona

Course of Study (48 min. periods)

Period	1st Yr.	2nd Yr.	3rd Yr.	4th Yr.
1	Agr.Arith.	Agricl Mechanics	Chemistry	Soils & Fertiliz
2	Algebra	"	"	"
3	Study)	Commercial 1 year	Pract. Agr. (A Unit)	Commercial Proj
4	Ag.History	"	"	"
Room				
5	Agronomy	Algebra	Farm Management	Applied Ge
6	"	"	"	"
7	Commercial	Physics	Commercial 1 year	Agricultur
8	Project	"	"	Botany

Note - Farm Management will include Farm Accounts and Farm Mechanics.

California

Course of Study

Subjects of Course	Four years	Units of Work 1st	2nd	3rd	4th
Applied Work (Special aid)					
Farm Projects, Farm Mechanics	8	2	2	2	2
Supplemental Subjects(Special aid)					
Farm English	½	½			
Farm Applications of Science	2	½	½	½	½
" " of Mathematics	1½	½	½	½	
Hygiene and Sanitation	½	½			
Farm Home, and rural home and community life	½				½
Farm Economics	½				½
Other required academic subjects (No special aid allowed)					
English and Literature	1		½	½	
Citizenship	½		½		
Development of modern democracy and democracies	½			½	
Development of the United States	½				½
Physicsl Education					
Totals	16	4	4	4	4

California

Courses of Study

Subjects of Courses	Units of Work			
	Four Years	Three Years	Two Years	One Year
Applied Work (Special aid)				
Farm Problems, Farm Mechanics	5	3	2	1
Supplemental Subjects (Special aid)				
Farm English	1	1		
Farm Applications of Science	3	1	1	1
" " of Mathematics	1½	1	½	½
Hygiene and Sanitation	½	½		
Farm Home, and Rural Home and Community Life	½			
Farm Economics	½			
Other Required Academic Subjects (No special aid allowed)				
English and Literature	1	½	½	
Civics	½	½		
Development of Modern Democracy and Americanism	½			
Physical Education	1	½	½	
Total	16	8	4	2

Not less than three hours per day of each pupil's time must be devoted to applied work which shall include farm projects and the instruction appertaining thereto, and farm mechanics; and not less than three hours per day to supplemental and other academic work in class or in school.

Connecticut

Suggested Course of Study

(By an hour, in this course, is meant 60 minutes)

Freshman Yr.

(Animal Husbandry)		
Poultry Husbandry	Recitation	60 hours
Dairy Husbandry		
Swine Husbandry	Laboratory and	
Beef-cattle and sheep	field practice	200 hours
The farm horse	Farm Enter-	
	prises	400 hours

Shop Work

Farm construction and repair work in wood, concrete and metal -- Practice 200 hours

Sophomore Yr.

(Plant Husbandry)		
Farm Crops and Soils Management	Recitation	60 hours
Vegetable Crops and Soils	Laboratory and	
Management	field Practice	200 hours
Fruit Crops and Soils Management	Farm Enter-	
	prises	400 hours

Not less than three hours per day of each pupil's
time must be devoted to applied work which shall include
farm projects and the instruction appertaining thereto,
and farm excursions; and not less than three hours per day
to supplemental and other academic work in class or in
school.

Curriculum

Suggested Course of Study

(By an hour, in this course, is meant 60 minutes)

Freshman Yr.

(Animal Husbandry)		
Poultry Husbandry	Recitation	60 hours
Dairy Husbandry		
Swine Husbandry	Laboratory and	
Beef-cattle and sheep	field practice	300 hours
The farm horse	Farm Enter-	
	prises	100 hours

Elon Yrs.

Farm construction and repair work in wood, concrete	
and metal -- Practice	200 hours

Sophomore Yr.

(Plant Husbandry)		
Farm Crops and Soils Management	Recitation	60 hours
Vegetable Crops and Soils	Laboratory and	
Management	field Practice	300 hours
Fruit Crops and Soils Management	Farm Enter-	
	prises	600 hours

Shop Work

Farm Construction and repair work in wood, concrete and metal -- Practice 200 hours

Junior Yr.

(Farm Machinery and Buildings)
Mechanical devices and appliances of the farm; assembly and installation; building plans, lay-out and construction. Practice---------- 400 hours
Farm Enterprises 400 hours

Senior Yr.

(Farm Management)
Studies of Farm Management of the region; Recitation and field study------130 hours
Economic organization of continued enterprises, years 1, 2 and 3 Enterprises 400 hours

Colorado

Suggested Course of Study

First Year

Vocational -- 180 minutes per day or 900 minutes per week.
Crop Production and Soils.
Farm Shop Work.
Project Work.

Non-Vocational -- two units.
English.
Elective.

Diagram

Vertical Course of Study

First Year

Topical -- 180 minutes per day or 900 minutes per week.
Crop Production and Soils.
Farm Shop Work.
Project Work.

Non-Topical -- two units.
English.
Elective.

Second Year

Vocational -- 180 minutes per day.
Livestock Production and Management.
Project Work.

Non-Vocational -- two units.
English.
Elective.

Third Year

Vocational -- 180 minutes per day
Farm Machinery, Motors, Tractors.
Choice of any two of the following:
Dairying
Poultry
Vegetable Gardening
Fruit Raising
Project Work.

Non-Vocational -- two units
English
Elective - work in civics and citizenship recommended.

Fourth Year

Vocational -- 180 minutes per day.
Farm Management and Accounting, Marketing Problems, Farm Surveys, Irrigation or dry land problems.
Rural Economics and Sociology
Project Work

Non-Vocational -- two units
Elective
Elective

Second Year

Vocational -- 120 minutes per day.
Livestock Production and Management.
Project Work.

Non-Vocational -- Two units.
English.
Citizenship.

Third Year

Vocational -- 180 minutes per day
Farm Machinery, Motors, Tractors.
Choice of any two of the following:
Dairying
Poultry
Vegetable Gardening
Fruit Farming
Project Work.

Non-Vocational -- Two units
English
Objective - work in civics and citizenship responsibilities.

Fourth Year

Vocational -- 180 minutes per day.
Farm Management or Agronomy, Veterinary Problems, Farm Buildings, Irrigation or dry land problems.
Rural Economics and Sociology
Project Work

Non-Vocational -- Two units
Electives
Objective

Kentucky

Four Year Course of Study

First Semester	Second Semester
First Year	
English-Rhetoric and Composition	English-Rhetoric and Composition
Mathematics-Algebra	Mathematics-Algebra
Farm Crops	Horticulture
Agricultural Botany (in connection with Farm Crops and Hort.)	Farm Shop Work
Home Project Work	Home Project Work
Second Year	
English-Literature and Classics	English-Literature and Classics
Elective-(Mathematics or History)	Elective(Math. or History)
Animal Husbandry	Animal Husbandry
Economic Zoology	Economics Zoology. Dairying or Poultry
Home Project Work	Home Project Work
Third Year	
English-Literature and Classics	English-Literature and Classics
Elective(Math.History or Lang.)	Elective(Math.Hist. or Lang.)
Soil Physics	Soil Fertility
Agricultural Chemistry	Agricultural Chemistry
Home Project Work	Home Project Work
Fourth Year	
Elective-(Rural Economics and Sociology)	Elective(Rural Economics and Sociology)
Elective-(Amer.Hist. or Lang.)	Elective-Amer.Hist. or Lang.)
Farm Management	Farm Management
Physics of Agriculture or Agricultural Engineering	Physics of Agriculture or Agricultural Engineering
Home Project Work	Home Project Work

Curriculum

Four Year Courses of Study

First Semester	Second Semester
First Year	
English-Rhetoric and Composition	English-Rhetoric and Composition
Mathematics-Algebra	Mathematics-Algebra
Free Choice	Horticulture
Agricultural History (in connection with Vocational Work.)	Farm Plant Work
Home Project Work	Home Project Work
Second Year	
English-Literature and Oratory	English-Literature and Oratory
Chemistry	Elective(Math. or Botany)
Biology-(Mathematics or History)	Animal Husbandry
Animal Husbandry	Composition Theory. Writing
Roentgen Technology	Poultry
Home Project Work	Home Projects Work
Third Year	
English-Literature and Oratory	English-Literature and Oratory
Elective(Math. or History)	Elective(Math. or Botany)
Soil Physics	Soil Fertility
Agricultural Chemistry	Agricultural Chemistry
Home Project Work	Home Projects Work
Fourth Year	
Elective-(Vocational Sociology and Sociology)	Elective(Vocational Sociology)
Biology-(Advanced Zoology)	Biology-(Adv. or Exp. Biol. or Exp. Zoology)
Farm Management	Farm Management
Physics of Agriculture or Agricultural Engineering	Physics of Agriculture or Agricultural Engineering
Home Project Work	Home Project Work

Montana

Course of Study

Vocational	Non-Vocational
First Year	
Live Stock Production and Management Farm Shop Work Project Work	Two units: English Elective
Second Year	
Crop Production and Soils Project Work	Two units: English Elective
Third Year	
Farm Machinery, Motors and Tractors Dairying Choice of any two: Poultry Vegetable Gardening Fruit Growing Project Work	Two units: English American History and Government
Fourth Year	
Farm Management and Marketing Problems, Farm Accounts, and Soil Surveys Rural Economics and Rural Sociology	Two units: English Industrial History

"All schools receiving aid must maintain each year a 'short course' of six weeks."

Vocational

Course of Study

Vocational	Non-Vocational

First Year

Live Stock Production and Management
Farm Shop Work
Project Work

Two units:
English
Elective

Second Year

Crop Production and Soils
Project Work

Two units:
English
Elective

Third Year

Farm Machinery, Motors and Tractors

Dairying
Choice of any two:
Poultry
Vegetable Gardening
Fruit Growing
Project Work

Two units: English
Advertising
History
Government

Fourth Year

Farm Management and Marketing Problems, and Farm Accounts, and Soil Surveys
Rural Economics and Rural Sociology

Two units:
English
Industrial
History

"All schools should provide all pupils with a thorough course of all types."

Michigan

Type Course of Study

First Year -- 9th Grade

Required

English
Algebra
Plant Life----½ year-50 min.class--100 min.Lab.2ds. & 3ds.
Carpentry-----½ " " " " " " "
Farm Practice---- 30 minutes

Elective

Latin
History
Bookkeeping

Second Year -- 10th Grade

Required

English
Geometry
Farm Crops--½ year (same as above)
Horticulture ½ year(" " ") Farm Practice--30 minutes

Elective

Latin
History
Commercial Geography ½ year
Commercial Law -- ½ year

Third Year -- 11th Grade

Required

English
Chemistry
Animal Husbandry --50 min.class and 100 min.lab.2nds. & 3ds.
Farm Practice--------30 minutes

Elective

Algebra--½ year
Geometry--½ year
Elementary Economics

Algebra

Fifth Course of Study

First Year -- Ten Grade

Required

English
Algebra
Plane Trigonometry---½ year
Solid Geometry-----½ year
Forty Practice---- 40 minutes

Elective
Latin
History
Bookkeeping

Second Year -- Eleventh Grade

Required

English
Chemistry
Plane Trigonometry ½ year
Spherical Trigonometry ½ year
Elective
Latin
History
Commercial Law -- ½ year

Third Year -- Twelfth Grade

Required

English
Chemistry
Rural Physics----½ year
Forty Practice---- 40 minutes

Elective
Latin
History
Bookkeeping

Fourth Year -- 12th Grade

Required

History and Civics
Physics
Soils -- (50) ----(100)
Farm Management and Farm Mechanics (50 and 100)
Farm Practice ----- 30 minutes

Elective

English
Sanitation and Hygiene

95 hours farm practice during year of nine and one-half months

400 minutes daily to Agriculture for each grade

Nebraska

Suggested Course of Study

Per. per Week	1st Semester	2nd Semester
	Freshman Year (A period is 45 Min. in length. A vocational subject must be offered) (for a double period on each day offered. Periods per week include study)	
10	English Grammar	English Composition
20	Animal Husbandry and Shop Work (Average 180 Minutes per day)	Animal Husbandry and Shop Work
	Supervised practice work (Home Project)	Supervised Practice Work
10	Electives: (4-6) Rural Civics (5-10) General Physical Science	Electives: (4-6) Farm Arithmetic (5-10) Agricultural Geography

Course Unit -- 12th Grade

Required

History and Civics
Physics
Math -- (80) ----(100)
Term Assignment and Term Examination (40 min 100)
Term Practice ------ 30 minutes
Elective
English
Recitation and Lyrics

90 hours term practice during part of time and one-half

Month

400 minutes daily to Agriculture for each grade

Schedule

Recommended Course of Study

Day Teacher	Day Teacher
Per. Per	Morning Work
Week	(A period is 55 min. in length. A vocational subject must be offered)
	(Not a double period or week day of first. Periods per week during study)
10	Morning Exercises.
20	Algebra; Bookkeeping and Shop. Natural Philosophy and Shop
	Work(average 180 Minutes per day)
	Physical practice work (Year Implant) Supervised
	Recitation Work
10	Classroom: Physiology:
	(4-6) Natural Civics (6-8) Term Arithmetic
	(8-10) Physical (8-10) Physiology Chemistry
	Shop-Work

Second Year

10 Rhetoric
20 Crops, Soils, and Shop Work

Home Project
10 Electives:
(4-6) Agricultural Botany
(4-10) General History
(4-10) Language
(4-10) Mathematics

Rhetoric
Crops, Soils and Shop Work
Home Project
(4-10) General History
(4-10) Language
(4-10) Mathematics

Third Year

20 a) Dairying, b) Machines, Motors and Tractors, c) Poultry, d) Horticulture and advanced gardening, e) Entomology (180 minutes per day) Any two of the first four subjects suited to given section of the state. It is suggested that all take Entomology.

Home Project
20 Electives:
(4-10) Mathematics
(4-10) Language
(4-10) Advanced Physics

Fourth Year

20 Farm Management (Includes Farm Law, Leases, Accounting.)
Rural Economics and Sociology (Includes Community Civics and Rural Life.)
Home----------Project.
20 Electives:
(4-10) Mathematics
(4-10) Language
(4-10) Chemistry
(4-10) American History and Civics

"The method of instruction shall combine in one class exercise, both practical work and the essential related work."

Second Year

10 Obstetrics
20 Drugs, Splints, and Sharp Tools

Obstetrics
Drugs, Splints and Sharp Tools

Home Project

10 Translations:
(4-8) Agricultural History
(4-10) General History
(4-10) Language
(4-10) Mathematics

(4-10) General History
(4-10) Language
(4-10) Mathematics

Third Year

20 a) Building, b) Machines, Motors and Tractors, c) Poultry

d) Horticulture and advanced surgical, e) Metallurgy

(180 minutes per day) Any two of the first four subjects

wished to given section of the state. It is advocated

that all take Astronomy.
Home Project
20 Translations:
(4-10) Mathematics
(4-10) Language
(4-10) Literature (Optional)

Fourth Year

20 Farm Management (Principles Farm Ins., Losses, Insuring.
Rural Economics and Marketing (Including Cooperative
Civics and Rural Life.)
Home----------Project.

20 Translations:
(4-10) Mathematics
(4-10) Language
(4-10) Chemistry
(4-10) Agriculture History and
Civics

"The method of Investigation shall include in one place
existing, both practical work and the essential reading
work."

North Carolina

Course of Study

First Year

English - Five 45 Min. periods per week
Mathematics " " " " " "
Science [1] " " " " " "
Agriculture - Five double periods per week. (Crops and Soils)
Practical work- " " " " " (Farm Projects or school farm)

Second Year

English - Five periods per week
History - " " " "
Mathematics -" " " "
Agriculture -Five double periods per week (Animal Husbandry)
Practical Work " " " " " (School farm or projects)

Third Year

English - Five periods per week
History - " " " "
Science(Chemical or Physical) five periods per week[1]
Agriculture-Five double periods per week
(Farm Mechanics and Horticulture)
Practical Work Five double periods per week. (School farm or projects)

Fourth Year

English - Five periods per week
Economics -" " " "
Civics (½) " " " "
Hygiene and Sanitation ½
Agriculture - Five double periods per week
(Farm Management, Farm Accounting and Farm Engineering)
Practical Work Five double periods per week.(School Farm or projects)

[1] Science subjects have double laboratory periods twice each week.

Form Subjects

Course of Study

First Year

English - Five to Six Hrs. periods per week.
Mathematics " " " " " "
Science " " " " " "
Agriculture - Five double periods per week. (Crops and Soil
Practical Work- " " " " " (Farm Projects or
school farm)

Second Year

English - Five periods per week.
History - " " " "
Mathematics - " " " "
Agriculture -Five double periods per week (Animal Husbandry
Practical Work " " " " " (Minor Line of
projects)

Third Year

English - Five periods per week.
History - " " " "
Science(Chemistry or Physics) Five periods per week.
Agriculture-Five double periods per week
(Farm mechanics and Horticulture)
Practical Work Five double periods per week. (Minor line o
projects)

Fourth Year

English - Five periods per week.
Economics - " " " "
Civics (1) " " " "
Hygiene and Sanitation 1
Agriculture - Five double periods per week
(Farm Management, Farm Accounting and Farm Surveying)
Practical Work Five double periods per week.(Minor line or
projects)

1 Science subjects have double laboratory periods
twice each week.

Oregon

Course of Study (Suggestive)

First Year

Subject	Unit
Soils and Crops	1
Home Project (Crop Production)	1
English	1
General Science	1

Second Year

Animal Husbandry	1
Home Project (Animal Husbandry)	1
English	1
Mathematics	1

Third Year

Horticulture	1
Home Project (Fruit Growing or Vegetable Growing)	1
English	½
History	½
Biology or Chemistry	1

Fourth Year

Farm Management	½
Rural Engineering	½
Home Project (Farm Management and Rural Engineering)	1
English	½
Civics	½
Rural Economics and Rural Sociology	1

At least fifty per cent of the time of the student must be spent in vocational agriculture. The other subjects in

Course

Course of Study (Suggestive)

First Year

Subject	Units
Soil and Crops	1
Home Projects (Home Production)	1
English	1
General Science	1

Second Year

Animal Husbandry	1
Home Projects (Animal Industry)	1
Physics	1
Mathematics	1

Third Year

Horticulture	1
Home Projects (Farm Growing of Vegetables	
Drawing)	1
Chemistry	1
Algebra	1
History or Commerce	1

Fourth Year

Farm Management	1
Rural Sociology	1
Home Projects (Farm Poultry and	
Rural Engineering)	1
Agriculture	1
Physics	1
Rural Economics	1

As large a variety can be used of the types mentioned above
be spent in vocational agriculture. The other subjects in

the course should have a close relation to agriculture and rural life.

Oklahoma

Courses of Study

Part-time and Evening Classes

"Part-time and Evening Classes may be provided as short intensive courses for persons over sixteen years of age who are actually employed in farm work; and each student in such course shall be required to carry on a supervised practice for six months as provided for in section 7 B. The work shall consist of class and laboratory work and demonstrations."

All Day School

First Year

Vocational
900 minutes per week, including:
Crop Production and Soils
Farm Shop Work (Wood)
Project Work

Non-Vocational -- 2 units
English
Elective

Second Year

Vocational
900 minutes per week
Live Stock Production and Management
Farm Shop Work (Black Smithing, Concrete, etc.)
Project Work

the course should have a close relation to agriculture
and rural life.

Objective

Purpose of Study

Part-time and Evening Classes

"Part-time and Evening Classes may be provided as short intensive courses for persons over eighteen years of age who are actually employed in farm work and who should receive such course credit by required to carry on a supervised practice farm project or problem for in section V B. The work shall consist of plans and industry work and demonstrations."

All Day School

First Year

Vocational
900 minutes per week instruction:
Crop Production and Soils
Farm Shop Work (Wood)
Project Work

Non-Vocational — 2 units
English
Elective

Second Year

Vocational
900 minutes per week
Live Stock Production and Management
Farm Shop Work (Metal Working, Concrete, etc.)
Project Work

Non-Vocational -- 2 units
English
Elective

Third Year

Vocational
900 minutes per week
Farm Machinery (Motors, Tractors, etc.)
Elective of any two of following:
Dairying, Poultry, Vegetable Gardening, Fruit Growing, Cotton.
Project Work

Non-Vocational -- 2 units
English
Elective

Fourth Year

Vocational
900 minutes per week
Farm Management (Farm Accounts and Surveys, Marketing Problems, Soils Management and Farm Surveying
Rural Economics and Sociology
Project Work

Non-Vocational -- 2 units
English
Elective

One year courses will be approved as a beginning but must be increased to three or four year courses by second year. No course under three years will be approved for aid unless the entire time is devoted to Vocational Agriculture.

South Dakota

Suggestive Course of Study

First Year

Vocational -- 180 minutes per day or 900 minutes per week
Crop Production and Soils
Farm Shop Work
Project Work

Non-Vocational -- 3 units
English
Minority

Third Year

Vocational
900 minutes per week
Farm Machinery (Tractors, Tructers etc.)
Planting of any two of following:
Dairying, Poultry, Vegetable Gardening, Fruit
Growing, Cotton.
Project Work

Non-Vocational -- 3 units
English
Minority

Fourth Year

Vocational
900 minutes per week
Farm Management (Farm Accounts and Surveys, Marketing
Mycology, Soils Improvement and Farm Buildings)
Rural Economics and Sociology
Project Work

Non-Vocational -- 3 units
English
Minority

Fifth Year

Vocational -- 900 minutes per week or 300 minutes per week
Crop Production and Soils
Farm Shop Work
Project Work

Non-Vocational -- 2 units
English
Elective

Second Year

Vocational -- 180 minutes per day
Livestock Production and Management
Project Work

Non-Vocational -- 2 units
English
Elective

Third Year

Vocational -- 180 minutes per day
Farm Machinery, Motors, Tractors
Choice of any two of the following:
Dairying
Poultry
Vegetable Gardening
Fruit Growing
Project Work

Non-Vocational -- 2 units
English
Elective -- work in Citizenship recommended

Fourth Year

Vocational -- 180 minutes per day
Farm Management and Accounting, Marketing Problems, Farm Surveys, etc.
Rural Economics and Sociology
Project Work

Non-Vocational -- 2 units
Elective
Elective

Non-Vocational -- 3 units
Writing
Objective

Second Year

Vocational -- 180 minutes per day
Livestock Production and Management
Project Work

Non-Vocational -- 3 units
Writing
Objective

Third Year

Vocational -- 180 minutes per day
Farm Machinery, Repair, Theories
Choice of any two of the following:
Painting
Poultry
Veterinary Medicine
Fruit Growing
Project Work

Non-Vocational -- 3 units
Writing
Objective -- work in Citizenship Requirements

Fourth Year

Vocational -- 180 minutes per day
Farm Management and Accounting, Marketing Problems, Farm
Surveys, etc.
Rural Economics and Sociology
Project Work

Non-Vocational -- 3 units
Objective
Writing

Tennessee

Course of Study

First Year

English (Grammar, Composition, Classics)
First Year Mathematics (Arith. and Algebra)
Biology, including Human Physiology
Agriculture -- Field Crops
Project Work

Second Year

English (Composition and Literature)
Algebra Completed
Animal Husbandry (Breeding, Breeds, Feeding and management of stock)
Botany and Zoology or Physiography
Project Work

Third Year

English (Composition and Literature)
Chemistry
Farm Carpentry: Elementary Economics
Horticulture and Farm Dairying
Project Work

Fourth Year

English (Composition and Literature)
American History and Civics
Physics
Farm Management and Agricultural Engineering
Project Work

Project work must be done by the pupil on a useful and productive basis for six months in the year under the supervision of the teacher of Agriculture.

Curriculum

Course of Study

First Year

English (Grammar, Composition, Diction)
First Year Mathematics (Arith. and Algebra)
Biology, including Human Physiology
Agriculture -- Field Crops
Project Work

Second Year

English (Composition and Literature)
Algebra Completed
Animal Husbandry (General, Breeds, Feeding and management of stock)
Botany and Zoology of Agriculture
Project Work

Third Year

English (Composition and Literature)
Chemistry
Farm Carpentry; Elementary Economics
Horticulture and Farm Drafting
Project Work

Fourth Year

English (Composition and Literature)
American History and Civics
Physics
Farm Management and Agricultural Engineering
Project Work

Project work must be done by the pupil on a

useful and productive basis for six months in the year und

the supervision of the teacher of Agriculture.

Utah

Course of Study (Suggestive)

First Year

Vocational - 180 minutes per day or 900 minutes per week
90 minutes -- Crop Production and soils
90 minutes -- (a) Farm Mechanics
(b) Home supervised practice work
Non-Vocational -- 2 units
English
Elective

Second Year

Vocational -- 180 minutes per day
90 minutes -- Livestock Production and Management
90 minutes -- (a) Farm Mechanics
(b) Home Supervised practice work

Non-Vocational -- 2 units
English
Elective

Third Year

Vocational -- 180 minutes per day
(a) Choice of any two of the following:
Dairying
Poultry
Vegetable Gardening
Fruit Growing
(b) Farm Machinery, motors, tractors

A minimum of 90 minutes per day of (a) or (a) combined with (b)
Non-vocational -- 2 units
English
Elective -- Work in Civics and Citizenship recommended

Test

Course of Study (Non-verbal)

First Year

Vocational -- 180 minutes per day or 900 minutes per week
50 minutes -- Open Production and Sale
40 minutes -- (a) Farm Mechanics
(b) Home Mechanics (Useful Work
Non-Vocational -- 3 units
English
Elective

Second Year

Vocational -- 180 minutes per day
90 minutes -- Livestock Production and Management
90 minutes -- (a) Farm Mechanics
(b) Home Maintenance Practice Work
Non-Vocational -- 3 units
English
Elective

Third Year

Vocational -- 180 minutes per day
(a) Choice of any two of the following:
Nursing
Poultry
Vegetable Gardening
Fruit Growing
(b) Farm Mechanics, Welding, Fruitcare
A minimum of 90 minutes per day of (a) or (a) combined with (b)
Non-Vocational -- 3 units
English
Elective -- Work in Civics and Citizenship recommended

Fourth Year

Vocational - 180 minutes per day
Choice of any two of the following:
Farm Management and Accounting, marketing problems, farm survey
Irrigation and Dry Farming Problems
Rural Economics and Sociology
Project Work, a minimum of 90 minutes consecutively

Non-Vocational -- 2 units
Elective
Elective

Farm Shop work is required as separate work during the first two years. Thereafter it may be considered as a part of project work when an integral part of that work.

Virginia Day School

Course of Study

First Year -- 8th Grade

Non-Vocational
English - 5 - 40 minute periods----------1 unit
Algebra - 5 - 40 minute periods----------1 unit
General Science-3 - 40 and 2 - 80 minute periods------1 unit

Vocational
Plant Production - 5 - 80 minute periods----------1 unit
Farm Shop Work - 2 - 80 minute periods
Supervised Project --Average of 5 hours- 40 minutes for nine months----------½ unit

Second Year -- 9th Grade

Non-Vocational
English - 5 - 40 minute periods----------1 unit
Plane Geometry - 5 - 40 minute periods----------1 unit

Fourth Year

Vocational - 180 minutes per day
Choice of any two of the following:
Farm Management and Accounting, Marketing Problems,
Farm Machinery
Irrigation and Dry Farming Problems
Rural Economics and Sociology
Project Work, a minimum of 90 minutes recommended

Non-Vocational ---------- 3 units
Elective
Elective

Farm Shop work is required of agricultural boys
during the first two years. Participation in any vocational
as a part of project work when an integral part of that vo

Tentative Day School

Course of Study

First Year -- 8th Grade

Non-Vocational
English - 5 - 40 minute periods----------1 unit
Algebra - 5 - 40 minute periods----------1 unit
General Science-4 - 60 and 5 - 80 minute periods------1 unit

Vocational
Plant Production - 8 - 80 minute periods----------1 unit
Farm Shop Work - 2 - 80 minute periods
Supervised Project --Average of 2 hours- 40 minutes
for nine months----------1 unit

Second Year -- 9th Grade

Non-Vocational
English - 5 - 40 minute periods----------1 unit
Plane Geometry - 8 - 40 minute periods----------1 unit

Economic Geography - 5 - 40 minute periods--------1 unit

Vocational
Animal Husbandry - 5 - 80 minute periods----------1 unit
Farm Shop Work - 2 - 80 minute periods
Farm Project - Average of 5 hours 40 minutes -----½ unit

Third Year - 10th Grade

Non-Vocational
English - 5 - 40 minute periods------------------1 unit
Farm Arithmetic and Elementary Bookkeeping - 5
40 minute periods ------1 unit
Human Biology - 3 - 40 and 2 - 80 minute periods--1 unit

Vocational
Horticulture and Field Crops - 5 - 80 minute per.-1 unit
Farm Shop Work - 2 - 80 minute periods
Supervised Project - 5 hours 40 minutes average --½ unit

Fourth Year - 11th Grade

Non-Vocational
English - 5 - 40 minute periods ------------------1 unit
History and Civics - 5 - 40 minute periods--------1 unit
Chemistry or Physics - 3 - 40 minute and 2 - 80
minute periods----------------1 unit

Vocational
Rural Engineering, Farm Mechanics, Farm Management, and
Rural Economics - 5 - 80 minute periods-----------1 unit
Farm Shop Work - 2 - 80 minute periods
Supervised project - Average 5 hrs., 40 min-------½ unit

Total academic credits-----16 units
Four years Supervisor Project work (Av.5hrs. 40 min)
2 units

Part-time Classes

Agriculture - 90 minutes per day for 12 weeks
Farm Shop Work - 90 minutes per day for 12 weeks
Project Work - 90 minutes per day for six months
Farm Arithmetic - 40 minutes per day for 12 weeks

Economic Geography - 3 - 40 minute periods----1 unit

Vocational

Animal Husbandry - 3 - 40 minute periods----1 unit
Farm Shop Work - 3 - 80 minute periods
Farm Drafting - Average of 3 hours 40 minutes ----½ unit

Third Year - 10th Grade

Non-Vocational

English - 5 - 40 minute periods----1 unit
Farm Advertising and Elementary Bookkeeping - 5
40 minute periods ----1 unit
Human Biology - 5 - 40 and 5 - 80 minute periods--1 unit

Vocational

Horticulture and Field Crops - 5 - 80 minute per.-1 unit
Farm Shop Work - 5 - 80 minute periods
Supervised Project - 5 hours 40 minutes average --½ unit

Non-Vocational Fourth Year - 11th Grade

English - 5 - 40 minute periods----1 unit
History and Civics - 5 - 40 minute periods----1 unit
Chemistry or Physics - 5 - 40 minute and 5 - 80
minute periods----1 unit

Vocational

Farm Mechanics, Farm Mechanics, and
Farm Economics - 5 - 80 minute periods----1 unit
Farm Shop Work - 5 - 80 minute periods
Supervised Project - Average 5 hrs., 40 min.----½ unit

Total academic credits----15 units
Four years Supervised Project work (4y.8hrs. 40 min)
5 units

Part-time Classes

Agriculture - 80 minutes per day for 18 weeks
Farm Shop Work - 80 minutes per day for 12 weeks
Project Work - 80 minutes per day for six months
Farm Arithmetic - 40 minutes per day for 12 weeks

English - 40 minutes per day for 12 weeks

Evening Classes

Agriculture - 90 minutes per day for 8 weeks
English - (Study of Farm Journals) -40 min. per day for 8 weeks
Project work - 90 minutes per day for six months

Reading - 30 minutes per day for 12 weeks

Evening Classes

Lectures/Tutor - 90 minutes per day for 8 weeks
Period - (Study of Math Journals) -60 min. per day for
8 weeks
Project work - 90 minutes (or more) per day for six months

IV. Summarized impressions and recommendations, based upon a comparative study of methods of various states.

On old Massachusetts Hall, below a bust of James Russel Lowell, there appears this inscription:

"I, Freedom, dwell with
Knowledge: I abide
With men by Culture
Trained and fortified."

It has taken many generations to realize that this principle applies as directly to the farmer as to the urban resident. It was not long after the Civil War that the Morril Act was passed by Congress, establishing the Agricultural Colleges. Since that time we have had six other acts enacted for the express purpose of encouraging education for the farmer. These were the Hatch Act in 1884, providing for experiment stations, the second Morril Act in 1890, giving additional aid to Agricultural Colleges, the Adams Act in 1906 for the encouragement of research, the Nelson Amendment in 1908, giving more aid to land-grant colleges (Part of this

IV. Questions, Suggestions, and Comments

Please use this space to comment on the quality of instruction you received during your visit to the Library. Your comments will be helpful in planning future programs.

money could be used in training teachers of agriculture), the Smith-Lever Act in 1914 furthering the extension service, and the most recent legislation for the advancement of Vocational Agricultural Education embodied in the Smith-Hughes Act for the promotion of Vocational Education.

These various acts for the encouragement of agricultural education in one form or another were enacted because of a growing realization of the necessity of checking the movement from farm to city; and also to assist in developing more intelligent agricultural methods so that greater production of food stuffs for our increasing population would result. Since 1880 there has been a marked decrease in the proportion of the American people engaged in farming as an occupation. This proportion declined from 44.4 per cent in 1880 to 32.9 per cent in 1910. Education, in order to accomplish the results hoped for, must be reorganized. In order to function, the educational program for the farm youths must be adjusted to the needs of his occupation. We are just coming to a realization of the fact in this country that as other conditions, customs, and methods change from time to time, so also the educational

methods and content must necessarily be altered in order to be of practical value. Along this line of thought, William C. Redfield, Secretary of Commerce says:

> "We are just beginning to realize that by the failure of some phases of our educational systems to meet the living needs of living boys and girls, we are permitting them to enter a sort of death in life which is having most hurtful effects on our country. Our complacency over the value of the common school to our people is being rudely disturbed, for many if not most of our young people emerge from that same common school quite without adjustment to the daily life they must thereafter lead, and almost if not altogether without the training fitting them for the workaday world in which they must live."

It is in an attempt to promote the reorganization of our educational system upon a practical basis that the Smith-Hughes Act is now in effect. The law places the Federal administration of the act in the hands of a Federal Board for Vocational Education, composed of seven members as follows: the Secretary of Agriculture, Secretary of Commerce, Secretary of Labor, United States Commissioner of Education, and three other citizens appointed by the President. These three members are chosen so that the agricultural interests, the manufacturing and commercial interests, and the labor

methods and content must necessarily be altered in order
to be of practical value. Above this line of thought,
writes D. Tompkins, Secretary of Commerce says:

"We are just beginning to realize that by the
failure of some phases of our educational
systems to meet the living needs of living
boys and girls, we are permitting them to
waste a part of each in life which is
having most difficult effects on our country.
Our competency over the rules of the
common school to our people is being rapidly
disturbed, for many if not most of our
young people emerge from that more chosen
social unity without adjustment to the
daily life they must thereafter lead, and
almost if not altogether without the train-
ing fitting them for the particular world in
which they must live."

It is in an attempt to promote the rehabilitation of
our educational system upon a practical basis that the Smith
Hughes Act is now in effect. The law places the Federal
administration of the act in the hands of a Federal Board
for Vocational Education, composed of seven members to wit:
the Secretary of Agriculture, Secretary of Commerce,
Secretary of Labor, United States Commissioner of Education
and three other citizens appointed by the President. These
three members are chosen so that the agricultural interests
the manufacturing and commercial interests, and the labor

interests are each represented. The Federal Board holds State boards accountable for the proper administration of the act and supervision of instruction under general regulation laid down by Federal Board.

Following is a brief summary of some of the findings of a special study of the administration of the act in twenty-three states.

1. All states provide for vocational agricultural departments in high schools. A few, like Georgia and Massachusetts have state or county agricultural schools.

2. Twelve states require that the school districts secure a plot of ground for agricultural work. The sizes of these plots vary from the one acre experiment plot in Oklahoma to the two-hundred acre farm for the Georgia state (white) agricultural schools.

3. Fifteen states set a definite minimum initial expenditure for laboratory equipment. The median amount is $500.00 The average is $440.00

4. Eight states require a definite minimum enrollment in the course as a condition for reimbursement. This minimum varies from six in Oklahoma to fifteen in New York. The median is ten. The average is ten.

5. Fifteen states require a definite maintenance allotment for the use of the instructor in purchasing necessary supplies. The amount is furnished by the local district; and varies in amount from $2 per pupil per year to $10 per pupil per year. The median is $5. The average is $4.50

6. Seven states match the Federal funds with State funds dollar for dollar. Three states add 1/6 to the 1/2

of the Federal appropriation, thus requiring the local district to pay 1/3 of instructors' salaries. One state adds 25%, leaving 25% for the local district to pay. South Dakota expects to eventually pay 50%; but at present is paying 30%, leaving 20% to the local community.

7. Seven states require that the instructor be at least 21 years old; and several southern states prescribe that the instructor be a man. One state sets the age minimum at 22 years. All states require that the instructor be a graduate from a standard agricultural college or its equivalent. Sixteen states prescribe that the instructor must have had not less than two years of practical farming experience. Two states require three years of practical farming.

8. Six states require at least two years of successful experience in teaching agriculture of the State Supervisor in addition to the preparation expected of an instructor. One state prescribes five years teaching experience; and another state requires three.

9. Four states prescribe that the instructor be allowed one month for professional improvement each year. Five states would give "a period" for vacation and professional improvement. One state would give him two weeks; and another state would allow him all of one week for professional improvement each year.

10. Twenty-two states recommend a four-year course of study. One state recommends a two-year course. Several states feature the short-course and evening schools.

11. Twelve states definitely require the local district to provide the instructor with transportation for the purpose of giving the home project work proper supervision.

12. Twenty states require the practice work to be done by the project method. Missouri "recommends" the class 'A' project; and Oregon requires six months of

"farm practice", but recommends the class 'B' project. Thirteen states require the class 'B' project method of field work. Seven states prescribe the class 'A' project method of field practice.

After a study of the experiences and the methods of the various states, certain desirable features of administration assume prominence. While the Federal Board is undoubtedly wise in leaving the details of administration (and especially sensible in regard to the course of study) to the individual states, yet there are certain desirable methods that should be practiced in every state. All non-essentials should be eliminated from the courses of study. The instruction should conform to the spirit as well as to the letter of the law. A few courses still retain much of the old formal subjects. There should be no waste motion in the Smith-Hughes instruction and each subject of the course should have a definite value to the student.

The agricultural instructor should have one month of vacation each year, and one month for definite professional improvement of which he should be required to make a full report. Each state should require the local district to provide suitable transportation for the instructor who supervises project work. This would tend to insure efficient

supervision. Too much stress cannot be placed on the importance of the type of instruction which groups the allied subject matter about the individual project. Seven states already are meeting with success by the use of this method. Some states still approve of plans of instruction that permit the supplemental subjects to be taught without relation to the individual project. This procedure loses the opportunity of giving practical motivation to the supplemental subjects by correlating them with the project that the student is conducting at home. The home project in every case should be conducted on a practical business basis, a careful account being kept of all expenses. The youth's experience in leasing his ground, buying his stock, poultry, seed, or whatever his project requires, the accurate figuring and recording of expenses and earnings, and the disposal to the best advantage of his produce at the finish, gives an ample field from which to select material for work in the supplemental subjects. This plan, of course, requires that the instructor be in close touch with the student and his project. It is for this reason that Iowa prescribes that, with 10 in a class, the instructor

give them his full time.

One element in arousing interest in the project method of instruction is because they are sources of income to the student; and often enable him to secure an education largely by his own efforts. An unusually successful project from the financial standpoint was that of a boy at Petaluma, California, who cleared a net profit of $1600 on a project involving 3,000 young chicks. Usually the projects do not net any such sum. The common experience, however, is to make a profit varying from $200 to $500. An interesting project was developed in Colorado by a boy who took a tractor as his project. He operated it throughout the season, doing work on his home farm and neighboring farms. A careful record was kept of hours of work each day, work accomplished in current price terms, initial and final value of the tractor, cost of fuel and repairs, wages of operator; and also the different wages earned by the tractor at the various kinds of work. The net gain for the season was $368.92 It is, of course, true that some projects are not financial successes. The financial failure may be the most successful as a lesson of value, however, and should not necessarily be classed as a failure. The project method is here to stay. It gives a real meaning to education.

V. Suggestive Four Year Course of Study for day school.

(Based on impressions received, in part, from this study)

First Year

Subject	Units
Project Work, including Practical Farm Mechanics	2
Farm Arithmetic	½
Business English, as related to farm transactions	½
Hygiene and Sanitation	½
General Science	½

Second Year

Project Work, including Practical Farm Mechanics	2
Combination of Algebra and Geometry, practical applications	½
Elements of Chemistry	½
Appreciative Literature, selected from American and English	½
Political Development of the United States as a Democracy	½

Third Year

Project Work, including Practical Farm Mechanics	2

7. Description Book for Course of
Study for Day School.

(Based on Impressions received, in part, from this stud

First Year

Subject	Units
Project Work, including Practice in Farm Mechanics	2
Farm Arithmetic	½
Business English, as related to Farm Transactions	½
Hygiene and Sanitation	½
General Science	½

Second Year

Project Work, including Practical Farm Mechanics	2
Combination of Algebra and Geometry, practical applications	½
Elements of Chemistry	½
Agriculture, Literature, selected from American and English	½
Political Development of the United States to a Democracy	½

Third Year

Project Work, including Practical Farm Mechanics	2

Farm Accounting and value and method of keeping farm records---------- ½

Applied Chemistry of Soils and method of rebuilding soil---------- ½

Agricultural and Industrial Development of the United States---------- ½

English and Public Speaking, (How to organize; and deliver talks and demonstrations, practice in parliamentary law, etc.---------- ½

Fourth Year

Project Work, including Practical Farm Mechanics---- 2

Electricity and principles of Mechanics applied to farm machinery, motors, tractors, possible uses of Electricity on farms, etc.---------- ½

Rural Home and Community Life---------- ½

Farm Management and Marketing Methods---------- ½

Practical Citizenship---------- ½

(Physical Education throughout course)

In order to be of maximum educational value, the project should be selected from a different line of agricultural work each year. This plan should assist the student in choice of type of farming to adopt as permanent vocation.

VI. California

A. Act of Adoption. Acceptance of Act.

"1. The California Legislature in an act accepted the provisions and benefits of the Federal Act for vocational education. The Governor approved the same May 29, 1917.

2. The State Treasurer is designated custodian of the funds.

3. The California Act provides for the acceptance of the funds for:
   a. The payment of salaries of teachers of trade, home economics, and industrial subjects.
   b. The payment of salaries of teachers, directors, and supervisors of agricultural subjects.
   c. The maintenance of courses, classes, or schools for training--
      (1) Teachers of trade and industrial subjects.
      (2) Teachers, directors, and supervisors of agricultural subjects.
      (3) Teachers of home economics.

4. In accepting the provisions and benefits of the Federal Act, the State Act provides for state appropriations which shall equal all Federal apportionments made to the State of California. The

VI. Definitions

A. Act of Adoption. Acceptance of Act.

"I. The Definitive Legislature in an act accepted the provisions and benefits of the Federal Act for vocational education. "An Observer approved the same May 20, 1917".

B. The State Treasurer is designated custodian of the funds.

C. The Definitive Act provides for the acceptance of the funds for:
a. The payment of salaries of teachers of trade, home economics, and industrial subjects.

b. The purchase of material of instruction, directories, and apparatus of agricultural subjects.

c. The maintenance of courses, classes, or schools for training--

(1) Teachers of trade and industrial subjects.
(2) Teachers, directors, and supervisors of agricultural subjects.
(3) Teachers of home economics.

D. In accepting the provisions and benefits of the Federal Act, the State Act provides for state appropriations which shall equal all Federal appropriations made in the State of Definitia. The

> Federal funds and the State funds combined constitute the vocational education fund, which fund is created by the act. The entire fund, including Federal and State moneys, is governed by the provisions of the Federal Act and by the regulations of the State Board, acting under the provisions of said act."

The active administration in the State of California is under a Commissioner of Vocational Education, assisted by a State Supervisor of Agricultural Education, a State Director of Vocational War Work who is now in charge of industrial education, and by five Supervisors and Directors of Teacher-Training - one of Home Economics, two of Agriculture, and two of Trades and Industries.

B. Method of procedure in establishment of vocational courses in agriculture in California under the Smith-Hughes Act.

The following extract from Bulletin No. 23 A, California Board of Education indicates the proper procedure in establishing standard vocational courses in agriculture.

> "High School boards applying for authority to establish and maintain vocational courses in agriculture, under the provisions of the Federal and State Vocational Education Acts, must submit, on blanks

furnished by the State Board of Education, such information as may be desired, including the following:

1. Approximate area in square miles of:

   a. High school district.
   b. Outside territory served by high school.

2. Approximate acres under cultivation in:

   a. High school district.
   b. Outside territory served by high school.

3. Approximate acres of grazing land in:

   a. High School district.
   b. Outside territory served by high school.

4. Principal occupations of people in order of importance -- agricultural, commercial, mining, industrial and trade, etc.

5. Character of principal agricultural occupations in order of importance -- stock raising, dairying, poultry raising, field crops, horticulture, viticulture, etc.

6. Principal agricultural products of community in order of importance -- hogs, sheep, beef or dairy stock, dairy products, horses, turkeys, chickens, alfalfa, hay, wheat, oats, barley, rice, corn, hops, cotton, potatoes, onions, sugar beets, beans, watermelons, cantaloupes, walnuts, almonds, olives, peaches,

apricots, plums, prunes, pears, apples, figs, grapes, raisins, oranges, lemons, pomeloes, berries, garden truck, etc.

7. Enrollment of pupils in all elementary schools for the preceding school year in:

a. High school district.
b. Outside territory served by high school.

8. Enrollment in each grade of high school for preceding year.

9. Number of boys in district over 14 years and less than 18 years of age who are not attending school.

10. Number of girls in district over 14 years and less than 18 years of age who are not attending school.

11. Number of persons who have expressed desire to take advantage of the course.

12. A description of the school lands, shops, laboratories, classrooms, and equipment that will be available for the use of pupils."

C. In order to be eligible for state aid, high schools must maintain one or more standard vocational courses in agriculture. To be rated as a standard course it must --

1. Have been authorized by the State Board of Education to establish the course.

2. Be maintained in accordance with the regulations of the State Board of Education, which regulations are in conformity with policies and standards of the Federal Board of Vocational Education.

3. It must provide satisfactory supervision of project work throughout the summer months, as well as during school year.

4. Be officially approved by the State Board of Education, after being inspected, as conforming to all requirements.

If a standard course is maintained, the high school district may expect to be reimbursed by the State Board as follows:

"For the first teacher unit of instruction -not to exceed-$1000
For the second teacher unit of instruction-not to exceed- 700
For the third teacher unit of instruction -not to exceed- 500
For the fourth teacher unit of instruction-not to exceed- 300

Provided, that the Board will in no instance reimburse any such district in a sum which shall exceed one-half of the amount paid as compensation for instruction in the required applied and supplemental subjects of said course or courses."

A teacher unit is defined as six sixty-minute hours of teaching and study supervision for thirty-six weeks. Necess-

ary care must be given to pupil's projects during vacation periods. "A proportionate reimbursement will be made for a fractional part of a teacher unit of instruction." This financial aid will be given only where teachers of applied work are paid, at least, $1500, and teachers of supplemental subjects, at least , $1200. Reimbursements for preceding year are paid by the State Board of Education during the first quarter of fiscal year. If funds available fall short of needs, aid will be pro-rated.

D. Professional aid to be expected.

1. Teacher-Training course at the University of California.

2. Assistance and co-operation of the University Extension Service.

3. Sectional teachers' meetings.

4. Supervisory help of the State Department of Vocational Education. Those immediately concerned with the work in Vocational agricultural Education are:

Edwin R. Snyder, Commissioner of Vocational Education

W. G. Hummel, Supervisor and Director of Teacher-Training

Samuel H. Dadisman, Supervisor and Director of Teacher-Training

Training

BIBLIOGRAPHY

Federal Board for Vocational Education
Statement of Policies- Bulletin No. 1

Federal Board for Vocational Education
Agriculturel Education- Bulletin No. 13

Arizona Bulletin of State Board of Vocational Education
Bulletin No. 3

Arizona Bulletin of State Board of Vocational Education
Bulletin No. 1

California State Board of Education
Vocational Education - Bulletin No. 23

California State Board of Education
Vocational Education - Bulletin No. 23-A

Connecticut State Board of Education
Vocational Education - Bulletin No. 45

Connecticut State Board of Education
Course in Agriculture - Bulletin No. 70

Colorado State Board for Vocational Education
Vocational Bulletin No. 3

BIBLIOGRAPHY

Colorado State Board for Vocational Education
First Annual Report

Florida State Board for Vocational Education
Approved Plans for Vocational Education

Georgia State Board for Vocational Education
Administration Bulletin No. 3

Georgia State Board for Vocational Education
State Plan - Bulletin No. 4

Iowa State Board for Vocational Education
Approved plans - Bulletin No. 1

Iowa State Board for Vocational Education
First Biennial Report, 1918

Illinois Board for Vocational Education
Plans for 1918-19 Bulletin No. 9

Kentucky Board for Vocational Education
Plans and Policies - Bulletin No. 3

Missouri Board of Education
Vocational Education Bulletin No. 3

Missouri State Board of Education
Vocational Education Bulletin No. 5

Montana Department of Public Instruction
Plans for Vocational Education, 1919

Colorado State Board for Vocational Education
First Annual Report
Florida State Board for Vocational Education
Approved Plans for Vocational Education,
Georgia State Board for Vocational Education
Administrative Bulletin No. 3
Georgia Plan Board for Vocational Education
State Plan - Bulletin No. 4
Iowa State Board for Vocational Education
Approved plans - Bulletin No. 1
Iowa State Board for Vocational Education
Third Biennial Report, 1918
Illinois Board for Vocational Education
Plans for Trade Bulletin No. 8
Kentucky Board for Vocational Education
Plans and Policies - Bulletin No. 2
Missouri Board of Education
Vocational Education Bulletin No. 1
Missouri State Board of Education
Vocational Education Bulletin No. 6
Montana Department of Public Instruction
Plans for Vocational Education, 1919

Michigan State Board of Control for Vocational Education
Bulletin No. 201
Michigan State Board of Control for Vocational Education
Bulletin No. 202
Michigan State Board of Control for Vocational Education
Bulletin No. 205
Nebraska State Board for Vocational Education
Plans - Bulletin No. 2
Nebraska State Board for Vocational Education
Plans 1919,20 - Bulletin No. 3
New York State University
Bulletin on Vocational Education - Bulletin No. 548
North Carolina State College Record
November 1918 - Vocational Agricultural Education
Bulletin No. 6
Oregon State Board for Vocational Education
Vocational Education Bulletin
Oklahoma State Board for Vocational Education
Plans - Bulletin No. 3
South Dakota State Board for Vocational Education
Plans for 1919-20-21

Michigan State Board of Control for Vocational Education
Bulletin No. 302
Michigan State Board of Control for Vocational Education
Bulletin No. 700
Michigan State Board of Control for Vocational Education
Bulletin No. 708
Nebraska State Board for Vocational Education
Plans - Bulletin No. 7
Nebraska State Board for Vocational Education
Plans 1919-20 - Bulletin No. 8
New York State University
Bulletin on Vocational Education - Bulletin No. 382
North Carolina State Outline Record
November 1919 - Vocational Legislation Education
Bulletin No. 6
Oregon State Board for Vocational Education
Vocational Education Bulletin
Oklahoma State Board for Vocational Education
Plans - Bulletin No. 2
South Dakota State Board for Vocational Education
Plans for 1919-20-21

Texas State Board for Vocational Education
Plans - Bulletin No. 68

Texas State Board for Vocational Education
First Annual Report 1918

Tennessee Board for Vocational Education
Requirements - Bulletin No. 2

Utah State Division of Vocational Education
Plans for 1919-20

Virginia State Board for Vocational Education
Supplement No. 4 - Bulletin No. 2

"Learning to Earn" - Plea and Plan for Vocational Education
Lapp and Mote

"Vocational Agricultural Education-By Home Projects"
Stimson

Texas State Board for Vocational Education

Plans - Bulletin No. 69

Texas State Board for Vocational Education

First Annual Report 1918

Tennessee Board for Vocational Education

Reports - Bulletin No. 2

Utah State Division of Vocational Education

Plans for 1939-40

Virginia State Board for Vocational Education

Supplement No. 4 - Bulletin No. 2

"Learning to Earn" - Plan and Plan for Vocational Educ...

Leap Out Vote

"Vocational Agricultural Education-By Mose Evelyn"

Pilgrim

UNIVERSITY OF CALIFORNIA LIBRARY
BERKELEY

Return to desk from which borrowed.
This book is DUE on the last date stamped below.

EDUCATION LIBRARY

LD 21–100m-7,'52(A2528s16)476

UNIVERSITY OF CALIFORNIA
DIVISION OF VOCATIONAL EDUCATION
BERKELEY, CALIFORNIA

YE 07009